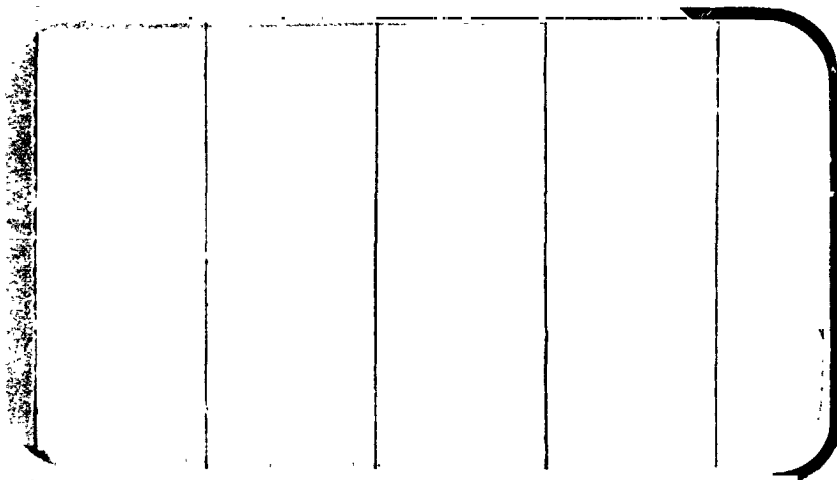


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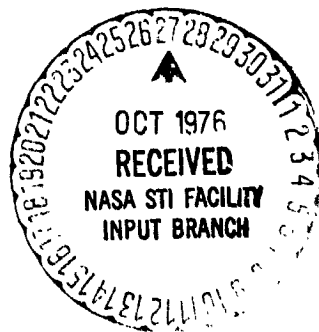
(NASA-CR-147629) LOW-SUBSONIC STABILITY AND CONTROL CHARACTERISTICS OF A 0.015-SCALE REMOTELY CONTROLLED ELEVON MODEL (44-0) OF THE SPACE SHUTTLE ORBITER IN THE LANGLEY RESEARCH CENTER LOW TURBULENCE PRESSURE

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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANAGEMENT services

SPACE DIVISION

CHRYSLER
CORPORATION

September, 1976

DMS-DR-2300
NASA CR-147,629

LOW-SUBSONIC STABILITY AND CONTROL
CHARACTERISTICS OF A 0.015-SCALE REMOTELY
CONTROLLED ELEVON MODEL (44-0) OF THE SPACE
SHUTTLE ORBITER IN THE LANGLEY RESEARCH CENTER
LOW TURBULENCE PRESSURE TUNNEL (LA61B)

Prepared under NASA Contract Number NAS9-13247

by

Data Management Services
Chrysler Corporation Space Division
New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: LaRC LTPT 228
NASA Series Number: LA61B
Model Number: 44-0
Test Dates: 5 January through 14 January, 1976
Occupancy Hours: 96

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Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

LOW-SUBSONIC STABILITY AND CONTROL
CHARACTERISTICS OF A 0.015-SCALE REMOTELY
CONTROLLED ELEVON MODEL (44-0) OF THE SPACE
SHUTTLE ORBITER, IN THE LANGLEY RESEARCH CENTER
LOW TURBULENCE PRESSURE TUNNEL (1A61B)

ABSTRACT

The investigation was conducted in the NASA/Langley Research Center Low Turbulence Pressure Tunnel during the time period from January 5 1976 to January 14, 1976. The model was a Langley-built 0.015-scale SSV Orbiter Configuration with remote independently operated left and right elevon surfaces. The objective of the test was to generate a detailed aerodynamic data base for the current Shuttle Orbiter Configuration. Special attention was directed to definition of Reynolds number effects on nonlinear aerodynamic characteristics of the orbiter. Small increments in angle of attack, sideslip, and elevon / aileron position were studied in order to better define areas where nonlinearities may occur. Six-component force and moment, and elevon position data were recorded over an angle of attack range from -2° to 20° at angles of sideslip of 0° , $\pm 2^\circ$, and $\pm 4^\circ$. Tests were also made over an angle of sideslip range of -6° to 6° at selected angles of attack and elevon/aileron position. The test Mach numbers were from 0.15 to 0.30 at Reynolds numbers from 2.0 to 13.5×10^6 per foot.

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PLOTTED COEFFICIENTS SCHEDULES:

- A) CL, CD, CA, L/D and CLM versus ALPHA;
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- B) CL, CD, L/D, CLM and CA versus ALPHA;
CLM versus CN; CYN, CY, CBL, AILRON and ELEVON versus ALPHA
- C) CYN, CBL, CY, AILRON and ELEVON versus BETA
- D) CYN, CBL, CY and ELEVON versus AILRON
- E) DCBLDB, DCY/DB and DCYNDB versus ALPHA

INTRODUCTION

The NASA is continuing experimental and analytical development of an aerodynamically sound and effective Space Shuttle vehicle. Extensive wind tunnel support has been devoted to this vehicle, especially the Orbiter Configuration, which is at present fixed in basic design. Several areas of concern have recently been noted from analysis of experimental data obtained from the numerous tests in various facilities which are: the existence of regions of nonlinear aerodynamic characteristics significant enough to cause concern to control designers and in some cases, disagreement between data obtained in the various facilities across the country.

Therefore, the Langley Research Center, in cooperation with Johnson Space Center and Rockwell International, has undertaken an experimental program to determine in detail the aerodynamic characteristics of a model of the Space Shuttle Orbiter. Attention will be given to conditions which have in past investigations shown regions of nonlinearity, since detailed definitions in these regions are particularly important in the development of longitudinal and lateral control characteristics to be used in the vehicle control logic. In addition, in order to minimize the effects of configuration differences which may contribute to uncertainties a single model will be tested in the following selected facilities:

Langley Research Center

- 8 Ft. Transonic Pressure Tunnel
- Low Turbulence Pressure Tunnel
- Unitary Plan Wind Tunnel

Ames Research Center

- 12 Ft. Transonic Pressure Tunnel

Calspan

- 8 Ft. Variable Density Transonic Tunnel

LTV, Inc.

- 4 X 4 Ft. Supersonic Wind Tunnel

INTRODUCTION (Concluded)

The model was designed with remotely controlled elevons so that pitch and roll control effectiveness could be defined in small control increments over a wide range of control settings in an expedient manner. A large data base of aerodynamic characteristics will be determined in continuous flow lower Reynolds number facilities. Nonlinearities or other possible problem areas that appear in these low Reynolds number tests will be investigated in facilities which are capable of higher Reynolds numbers. At the conclusion of the overall program, aerodynamic data will be available in the Mach range from 0.25 to 4.6 on a single model (to eliminate possible configuration differences) and in a sufficiently wide range of Reynolds numbers to give a high degree of confidence in the data and extrapolation to full scale conditions.

The purpose of the present paper is to present aerodynamic characteristics obtained in the Langley Low Turbulence Pressure Tunnel at low-subsonic speeds over a range of Reynolds numbers from about 2 to 13×10^6 per foot. Data were taken over an angle of attack range from -2° to 20° and angles of sideslip of 0° , $\pm 2^\circ$, and $\pm 4^\circ$. Additional tests were made over an angle of sideslip range of -6° to 6° at selected angles of attack.

NOMENCLATURE
General

<u>PLOT SYMBOL</u>	<u>MNEMONIC</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C _p	CP	pressure coefficient; $(p_1 - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m ² , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m ² , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m ³ , slugs/ft ³

Reference & C.G. Definitions

A _b		base area; m ² , ft ²
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
$\frac{l}{c}$ _{REF}	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m ² , ft ²
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

ORIGINAL PAGE IS
OF POOR QUALITY

NOMENCLATURE (Continued)

Body-Axis System

<u>PLOT SYMBOL</u>	<u>MNEMONIC</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
I/D	L/D	lift-to-drag ratio; C_L/C_D
I/D_f	L/DF	lift to forebody drag ratio; C_L/C_{D_f}
T_t		stagnation temperature, degrees F

NOMENCLATURE (Concluded)

<u>Plot Symbol</u>	<u>Mnemonic</u>	<u>Definition</u>
δ_{eL}	ELVN-L	left elevon surface deflection angle, positive deflection trailing edge down, degrees
δ_{eR}	ELVN-R	right elevon surface deflection angle, positive deflection trailing edge down, degrees
δ_a	AILRON	aileron deflection angle, $(ELVN-L/2 - ELVN-R/2)$, degrees
δ_e	ELEVON	elevon deflection angle, $(ELVN-L/2 + ELVN-R/2)$, degrees
δ_{BF}	BDFLAP	body flap deflection angle, degrees
δ_{SB}	SPDBRK	speedbrake deflection angle, degrees
δ_r	RUDDER	rudder deflection angle, degrees
$C_{l\beta}$	DCBLDB	rolling moment coefficient derivative with respect to sideslip angle, per degree
$C_{n\beta}$	DCYNDB	yawing moment coefficient derivative with respect to sideslip, per degree
$C_{y\beta}$	DCY/DB	side force coefficient derivative with respect to side slip, per degree
	CPB1	model base pressure taps
	CPB2	
	CPB3	

TEST CONFIGURATIONS INVESTIGATED

The test model was a 0.015-scale model of the Space Shuttle Orbiter. (Figures 2 and 3). The model was constructed at the Langley Research Center using the nose section forward of full-scale fuselage station 672.8, the vertical tail and OMS pods from an existing Rockwell model 49-0. The remainder of the model, the wings, elevons, and body were constructed from Rockwell-furnished line details. The elevon hinge line gap was sealed for this test. The left and right elevon surfaces were driven independently by internally mounted electric motors. The elevon position was determined by high resolution potentiometers mounted on the pivot axis of the elevons thus giving the true position of the elevon under load at all times. The accuracy of the elevon position is the read-out accuracy of the potentiometer, which was determined to be within 0.2 degrees.

The model configuration is summarized as follows:

Orbiter- 140A/B/C = B₂₆ C₉ E₄₃ F₈ M₁₆ N₂₈ R₅ V₈ W

Component	Definition
B ₂₆	Fuselage per Rockwell Lines VL70-000140A and VL70-000140B (Model drawing SS-A00147)
C ₉	Canopy per Rockwell Lines VL70-000140A and VL70-000143B (Model drawing SS-A00147)
E ₄₃	Slotted version (6-inch) of E ₂₆ elevons per Rockwell VL70-000145 (Model drawing SS-A00147)
F ₈	Body Flap per Rockwell Lines VL70-000145 (Model drawing SS-A00147)
M ₁₆	OMS/RSC pods per Rockwell Lines VL70-0084010 (Model drawing SS-A00147)
N ₂₈	OMS engine nozzle per Rockwell Lines VL70-000145 (Model drawing SS-A00147)
R ₅	Rudder per Rockwell Lines VL70-000146A (Model drawing SS-A00148)
V ₈	Vertical tail per Rockwell Lines VL70-00146A (Model drawing SS-A00148)

CONFIGURATIONS INVESTIGATED (Concluded)

Component

Definition

W

Wing per Rockwell V70-30-906-01 (Basic control drawing)

A complete description of model dimensional data is given in Table III.

TEST FACILITY DESCRIPTION

The tests were conducted in the Langley Low-Turbulence Pressure Tunnel, which is a variable-pressure, single return facility with a closed rectangular test section that is 0.914 meter (3.00 ft.) wide and 2.290 meters (7.50 ft.) high. The tunnel can accommodate tests in air at low subsonic Mach numbers and at a Reynolds number per unity length up to about 49.2×10^6 per meter (15.0×10^6 per ft.).

TEST CONDITIONS

The tunnel conditions existing during the test are summarized in Table I and the configurations tested are shown in Table II. The model was sting supported, and the aerodynamic forces and moments were measured by an internally mounted six-component strain gage balance. In an attempt to insure turbulent flow over the model, strips of carborundum grit, were applied to the wing, vertical tail, and nose as shown in figure 2c. Tests were also made without grit for comparison purposes. Model angle of attack was varied from about -2° to 20° for angles of sideslip of 0° , $\pm 2^\circ$, and $\pm 4^\circ$. Sideslip angles were varied from -6° to 6° at angles of attack of 0° , 6° , 12° , and 18° . Angles of attack and sideslip have been corrected for the effects of sting deflection under load. Runs were made either by setting the elevons at a fixed angle from $+10^\circ$ to -20° and varying the angle of attack or by fixing the angle of attack and varying the elevon angle. No correction due to load has been applied to elevon angle since total torsional bending of the elevon has been determined to be negligible.

DATA REDUCTION

A LARC UT-27-100 six component strain gage balance was used to measure model forces and moments. All final data were presented along a set of body and stability axis (Figure 1) passing through the nominal center of gravity located at F. S. 1076.7 and FRL 375.0. Drag data presented represent gross drag in that no corrections to free-stream conditions in the base regions have been made. Model data were converted to standard NASA Coefficients using the following constants:

Reference Area	$S_{ref} = 0.605 \text{ ft.}^2$
Reference Length	$c_{ref} = 7.122 \text{ in.}$
Reference Span	$b_{ref} = 14.05 \text{ in.}$
Total base area excluding sting cavity	$A_b = 0.0615 \text{ ft.}^2$
Sting Cavity area	$A_{sc} = 0.3409 \text{ ft.}^2$

TABLE I

TEST : LARC UTPT 228 (IA61B)			DATE : 2-9-76
TEST CONDITIONS			
MACH NUMBER	REYNOLDS NUMBER (per ft.)	DYNAMIC PRESSURE (pounds/sq. foot)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.15	2.0×10^6	70	100°
0.15	4.0×10^6	138	100°
0.15	6.0×10^6	204	100°
0.15	8.0×10^6	272	100°
0.15	10.0×10^6	340	100°
0.15	11.0×10^6	370	100°
0.20	4.0×10^6	186	100°
0.20	6.0×10^6	280	100°
0.20	8.0×10^6	376	100°
0.20	10.0×10^6	452	100°
0.20	12.0×10^6	560	100°
0.20	12.5×10^6	575	100°
0.20	13.0×10^6	586	100°
0.20	13.5×10^6	616	100°
0.25	4.0×10^6	230	100°
0.25	6.0×10^6	350	100°

BALANCE UTILIZED: <u>LARC UT 27-100</u>			
	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	<u>600 lb.</u>	<u>±3 lb.</u>	<u> </u>
SF	<u>300 lb.</u>	<u>±1.50 lb.</u>	<u> </u>
AF	<u>100 lb.</u>	<u>±0.500 lb.</u>	<u> </u>
PM	<u>800 in.-lb.</u>	<u>±4.00 in.-lb.</u>	<u> </u>
RM	<u>400 in.-lb.</u>	<u>±2.00 in.-lb.</u>	<u> </u>
YM	<u>600 in.-lb.</u>	<u>±3.00 in.-lb.</u>	<u> </u>
COMMENTS:			

TABLE I (Concluded)

TEST : LARc UPT 228 (LA61B)		DATE : 2-9-76	
TEST CONDITIONS			
MACH NUMBER	REYNOLDS NUMBER (per ft.)	DYNAMIC PRESSURE (pounds/sq. foot)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.25	8.0×10^6	462	100°
0.25	10.0×10^6	580	100°
0.30	2.0×10^6	144	100°
0.30	3.5×10^6	238	100°
0.30	4.0×10^6	280	100°
0.30	5.0×10^6	350	100°
0.30	6.0×10^6	420	100°
0.30	7.0×10^6	492	100°
0.30	8.0×10^6	560	100°
0.35	2.5×10^6	220	100°
0.35	4.0×10^6	340	100°

BALANCE UTILIZED: LARC UT 26 55

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	<u>600 lb.</u>	<u>3.00 lb.</u>	<u> </u>
SF	<u>300 lb.</u>	<u>1.50 lb.</u>	<u> </u>
AF	<u>55 lb.</u>	<u>0.275 lb.</u>	<u> </u>
PM	<u>800 in.-lb.</u>	<u>3.00 in.-lb.</u>	<u> </u>
RM	<u>400 in.-lb.</u>	<u>2.00 in.-lb.</u>	<u> </u>
YM	<u>600 in.-lb.</u>	<u>3.00 in.-lb.</u>	<u> </u>

COMMENTS:

TABLE II

TEST : LARC IPT 228 (LA61B)										DATE : 2-9-76																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
DATA SET IDENTIFIER		CONFIGURATION		SCHD. PARAMETERS/VALUES		NO. OF RUNS		MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)							TEST RUN NUMBERS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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COEFFICIENT SCHEDULES

TYPE OF DATA
 α OR β
 SCHEDULES

A) $\alpha = 2^\circ$ to 24° B) $\alpha = 2^\circ$ to 23°
 E) $\alpha = 0^\circ$ to 22° F) $\alpha = 0^\circ$ to 21°

C) $\alpha = 2^\circ$ to 22° D) $\alpha = 2^\circ$ to 21°
 G) $\alpha = 0^\circ$ to 20°

IDVAR (1) IDVAR (2) NDV

ORBITER = 140A/B/C = B₂₆ C₉ E₄₃ F₈ M₁₆ N₂₈ R₅ V₈ W

Dataset 001 - 040

TABLR II - Continued.

TEST : LARC INTPT 228 (LA61B)										DATE : 2-9-76										
DATA SET / RUN NUMBER COLLATION SUMMARY																				
DATA SET IDENTIFIER		CONFIGURATION		SCHD.		PARAMETERS/VALUES		NO. OF RUNS		MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)										
				α	β	δe	δa	$\delta S B$	$R M /$											
RJ7018	ORBITTER	B	0°	0°	0°	0°	25	10.0		0.15	0.20	0.25	0.30	0.35						
19		B									8	7								
20		B										38								
21		A						11.0			14									
22		B						12.0				12								
23		A						12.5				15								
24		A						13.5				29								
25		D						12.5				61								
26		E										30								
27		E										47								
28		F										46								
29		F						7.0				33			75					
30		F						12.5					45							
31		F											48							
32		B											51							
33		A						13.0					42							
34		A											41							
TYPE OF DATA										COEFFICIENT SCHEDULES										
α OR β										IDVAR (1) IDVAR (2) NOV										
SCHEDULES																				

TABLE II - Continued.

TEST : LARC INTFT 228 (LA61B)										DATA SET/RUN NUMBER COLLATION SUMMARY										DATE : 2-9-76																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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* 139 & 140 created from runs 39 & 40 (Hysteresis Runs) descending sideslip points.

Dataset 041-055

TABLE II - Continued.

TEST : LARC INFT 228 (LA61B)										DATE : 2-9-76																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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TYPE OF DATA
 α OR β
 SCHEDULES
 COEFFICIENT SCHEDULES
 IDVAR (1) IDVAR (2) NOV
 H) $\delta_a = -5^\circ$ to 10° for all δ_b except 10°
 $\delta_a = -5^\circ$ to 5° for $\delta_b = 10^\circ$

* Runs 171 & 172 created from runs 71 & 72 (Hysteresis Runs) descending sideslip points.

Datasets 056-069

TABLE II - Concluded.

[illegible]

TABLE III
MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY B₂₆

GENERAL DESCRIPTION : Configuration 140A/B Orbiter Fuselage

NOTE: B₂₆ is identical to B₂₄ except underside of
fuselage has been refaired to accept W

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147, RELEASE 12

DRAWING NUMBER: VL70-000143B, -000200, 000205, -006089, -000145,
-000144, 000140B

DIMENSIONS :	FULL SCALE	MODEL SCALE
* Length (OML: Fwd Sta. X = 235) - In.	<u>1293.3</u>	<u>19.400</u>
* Length (DML: Fwd Sta. X ₀ = 238) - In.	<u>1290.3</u>	<u>19.355</u>
* Max Width (@ X = 1528.3) - In.	<u>264.0</u>	<u>3.960</u>
Max Depth (@ X ₀ = 1464) - In.	<u>250.0</u>	<u>3.750</u>
Fineness Ratio	<u> </u>	<u> </u>
Area - Ft ²	<u>340.88</u>	<u>0.077</u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III - CONTINUED
MODEL DIMENSIONAL DATA

MODEL COMPONENT : CANOPY - C₉

GENERAL DESCRIPTION : Configuration 3A, Canopy used with Fuselage

B₂₆

MODEL SCALE: 0.015

MODEL DRAWING: SS-A00147, RELEASE 12

DRAWING NUMBER :

VL70-000143A/B

DIMENSIONS :

FULL SCALE

MODEL SCALE

Length ($x_0 = 434.643$ to 587)

143.357

2.150

Max Width ($@ x_0 = 513.127$)

152.412

2.286

Max Depth ($@ x_0 = 485.0$)

25.000

0.375

Fineness Ratio

Area

Max. Cross-Sectional

Planform

Wetted

Base

TABLE III - Continued
MODEL DIMENSIONAL DATA

MODEL COMPONENT : SLOTTED ELEVON (6-inch GAP) - E₄₃

GENERAL DESCRIPTION Configuration 140A/B Orbiter elevon.

NOTE: E₄₃ is a slotted version of E₂₆. Data are for one side.

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147

DRAWING NUMBER VL70-000145

DIMENSIONS	FULL SCALE	MODEL SCALE
Area - Ft. ²	<u>210.0</u>	<u>0.0473</u>
Span (equivalent) - In.	<u>349.2</u>	<u>5.238</u>
Inb'd equivalent chord - In.	<u>118.004</u>	<u>1.770</u>
Outb'd equivalent chord	<u>55.192</u>	<u>0.828</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Trailing Edge	<u>-10.056</u>	<u>-10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
Area Moment (Normal to hinge line)	<u>1587.25</u>	<u>0.00536</u>
Mean Aerodynamic Chord (c), in.	<u>90.7</u>	<u>1.3605</u>

TABLE III - Continued
MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY FLAP - F₈

GENERAL DESCRIPTION : Configuration 140A/B Orbiter Body Flap. Hinge-
line located at X₀ = 1528.3, Z₀ = 284.3

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147, RELEASE 12

DRAWING NUMBER : VL-000140A, VL70-000145

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (X ₀ = 1520 To X ₀ = 1613)	<u>93.000</u>	<u>1.395</u>
Max Width (In.)	<u>262.00</u>	<u>3.930</u>
Max Depth (X ₀ = 1520) - In.	<u>23.000</u>	<u>0.345</u>
Fineness Ratio	<u> </u>	<u> </u>
Area - Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u>150.525</u>	<u>0.0339</u>
Wetted	<u> </u>	<u> </u>
Base	<u>41.84722</u>	<u>0.00941</u>

TABLE III-Continued
MODEL DIMENSIONAL DATA

MODEL COMPONENT : OMS pod (M16)

GENERAL DESCRIPTION : Configuration 140D Orbiter OMS Pod

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147

DRAWING NUMBER: VL70-000140D, VL70-0084010

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta $X_0 = 1310.5$)-In.	<u>258.5</u>	<u>3.878</u>
Max Width (@ $X_0 = 1511$)-In.	<u>136.8</u>	<u>2.052</u>
Max Depth (@ $X_0 = 1511$)-In.	<u>74.7</u>	<u>1.121</u>
Fineness Ratio	<u>2.484</u>	<u>2.484</u>
Area - ft^2	<u>58.864</u>	<u>0.0132</u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III (Cont'd)

MODEL COMPONENT: OMS NOZZLES - N28Configuration 140A/B Orbiter OMS NozzlesMODEL SCALE: 0.015 MODEL DWG: SS-000147
RELEASE 5 (Contour)DRAWING NUMBER: VL70-000145, (location)

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
MACH NO:		
Length - In.		
Gimbal Point to Exit Plane		
Throat to Exit Plane		
Diameter - In.		
Exit		
Throat		
Inlet		
Area - ft ²		
Exit		
Throat		
Gimbal Point (Station) - In.		
Left Nozzle		
X	<u>1518.0</u>	<u>22.770</u>
Y	<u>-88.0</u>	<u>-1.320</u>
Z	<u>492.0</u>	<u>7.380</u>
Right Nozzle		
X	<u>1518.0</u>	<u>22.770</u>
Y	<u>+88.0</u>	<u>+1.320</u>
Z	<u>492.0</u>	<u>7.380</u>
Null Position - Deg.		
Left Nozzle		
Pitch	<u>15°49'</u>	<u>15°49'</u>
Yaw	<u>12°17'</u>	<u>12°17'</u>
Right Nozzle		
Pitch	<u>15°49'</u>	<u>15°49'</u>
Yaw	<u>12°17'</u>	<u>12°17'</u>

TABLE III - Continued
MODEL DIMENSIONAL DATA

MODEL COMPONENT RUDDER - R₅
 GENERAL DESCRIPTION 2A, 3, 3A, and 140A/B Configurations.

 MODEL SCALE: 0.015 MODEL DRAWING: SS-A00148

 DRAWING NUMBER VL70-000146A, VL70-000095, VL70-000139

DIMENSIONS	FULL SCALE	MODEL SCALE
Area Ft ²	<u>100.15</u>	<u>0.0225</u>
Span (equivalent) - In.	<u>201.0</u>	<u>3.015</u>
Inb'd equivalent chord - In.	<u>91.585</u>	<u>1.3738</u>
Outb'd equivalent chord - In.	<u>50.833</u>	<u>0.7625</u>
Ratio movable surface chord/ total surface chord	<u> </u>	<u> </u>
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees	<u> </u>	<u> </u>
Leading Edge	<u>34.83</u>	<u>34.83</u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
Area Moment (Normal to hinge line)	<u>610.92</u>	<u>0.002</u>
Mean Aerodynamic Chord, - In.	<u>73.2</u>	<u>1.098</u>

TABLE III - Continued
MODEL DIMENSIONAL DATA - Continued

MODEL COMPONENT : .VERTICAL - V₈

GENERAL DESCRIPTION Configuration 140A/B Orbiter Vertical Tail.

MODEL SCALE: 0.015

DRAWING NUMBER: SS-A00148,

RELEASE 6

DRAWING NUMBER VL70-000146A

DIMENSIONS:

FULL SCALE

MODEL SCALE

TOTAL DATA

Area (Theo) - Ft ²	<u>413.253</u>	<u>0.093</u>
Planform		
Span (Theo) - In.	<u>315.720</u>	<u>4.736</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>0.404</u>	<u>0.404</u>
Sweep-Back Angles, Degrees.		
Leading Edge	<u>45.000</u>	<u>45.000</u>
*Trailing Edge	<u>26.2</u>	<u>26.2</u>
0.25 Element Line	<u>41.130</u>	<u>41.130</u>

Chords:

Root (Theo) WP	<u>268.500</u>	<u>4.028</u>
Tip (Theo) WP	<u>108.470</u>	<u>1.627</u>
MAC	<u>199.808</u>	<u>2.997</u>
Fus. Sta. of .25 MAC	<u>1463.50</u>	<u>21.953</u>
W.P. of .25 MAC	<u>635.522</u>	<u>9.533</u>
B.L. of .25 MAC	<u>0.00</u>	<u>0.00</u>

Airfoil Section

Leading Wedge Angle - Deg.	<u>10.00</u>	<u>10.00</u>
Trailing Wedge Angle - Deg.	<u>14.920</u>	<u>14.920</u>
Leading Edge Radius	<u>2.00</u>	<u>0.030</u>

Void Area

<u>13.17</u>	<u>0.003</u>
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Blanketed Area

<u>0.00</u>	<u>0.00</u>
-------------	-------------

TABLE III -- (Concluded)

MODEL COMPONENT: WING — W

GENERAL DESCRIPTION: Configuration 4

NOTE: Identical to W114 except airfoil thickness.

Dihedral angle is along trailing edge of wing.

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00148

DRAWING NUMBER: VL70-000140A, -000200

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
<u>TOTAL DATA</u>		
Area - Ft. ²		
Planform	2690.00	0.605
Wetted		
Span (equivalent)(Theo) In.	936.68	14.050
Aspect Ratio	2.265	2.265
Rate of Taper	1.177	1.777
Taper Ratio	0.200	0.200
Dihedral Angle, degrees	3.500	3.500
Incidence Angle, degrees	0.500	0.500
Aerodynamic Twist, degrees	+3.000	+3.000
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	-10.056	-10.056
0.25 Element Line	35.209	35.209
Chords:		
Root (Wing Sta. 0.0)(Theo) B.P.O.O.	689.24	10.339
Tip, (equivalent)(Theo) B.P.	137.85	2.068
MAC	474.81	7.122
Fus. Sta. of .25 MAC	1136.83	17.052
W.P. of .25 MAC	290.58	4.359
B.L. of .25 MAC	182.13	2.732
Airfoil Section		
Root		
Tip		
<u>EXPOSED DATA</u>		
Area - Ft. ²	1750.50	0.394
Span, (equivalent)(Theo) In. BP108	720.68	10.810
Aspect Ratio	2.059	2.059
Taper Ratio	0.245	0.245
Chords		
Root BP108	562.09	8.431
Tip 1.00 $\frac{b}{2}$	137.85	2.068
MAC $\frac{2}{2}$	392.83	5.892
Fus. Sta. of .25 MAC	1185.98	17.790
W.P. of .25 MAC	294.30	4.415
B.L. of .25 MAC	251.77	3.777

Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

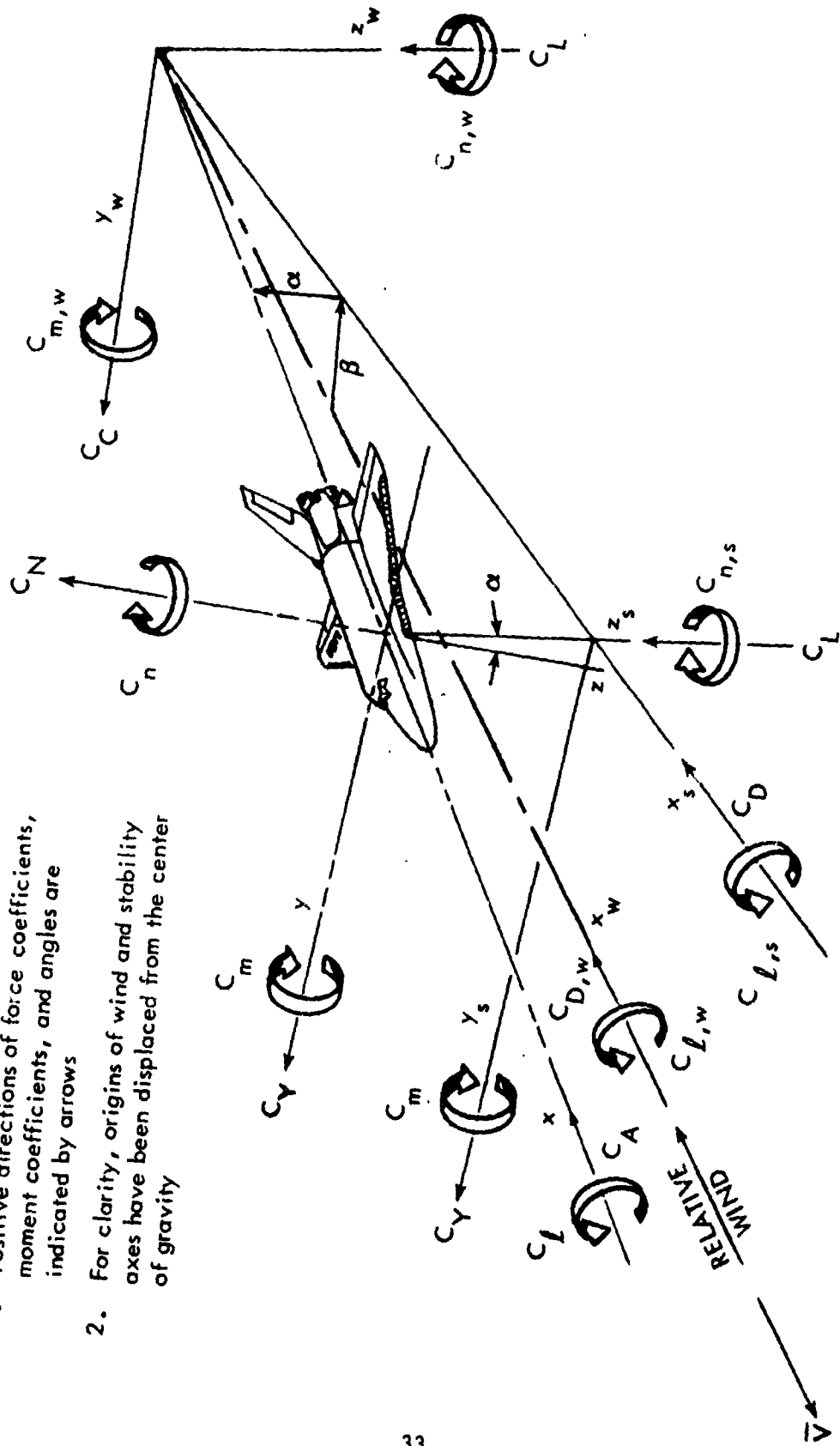
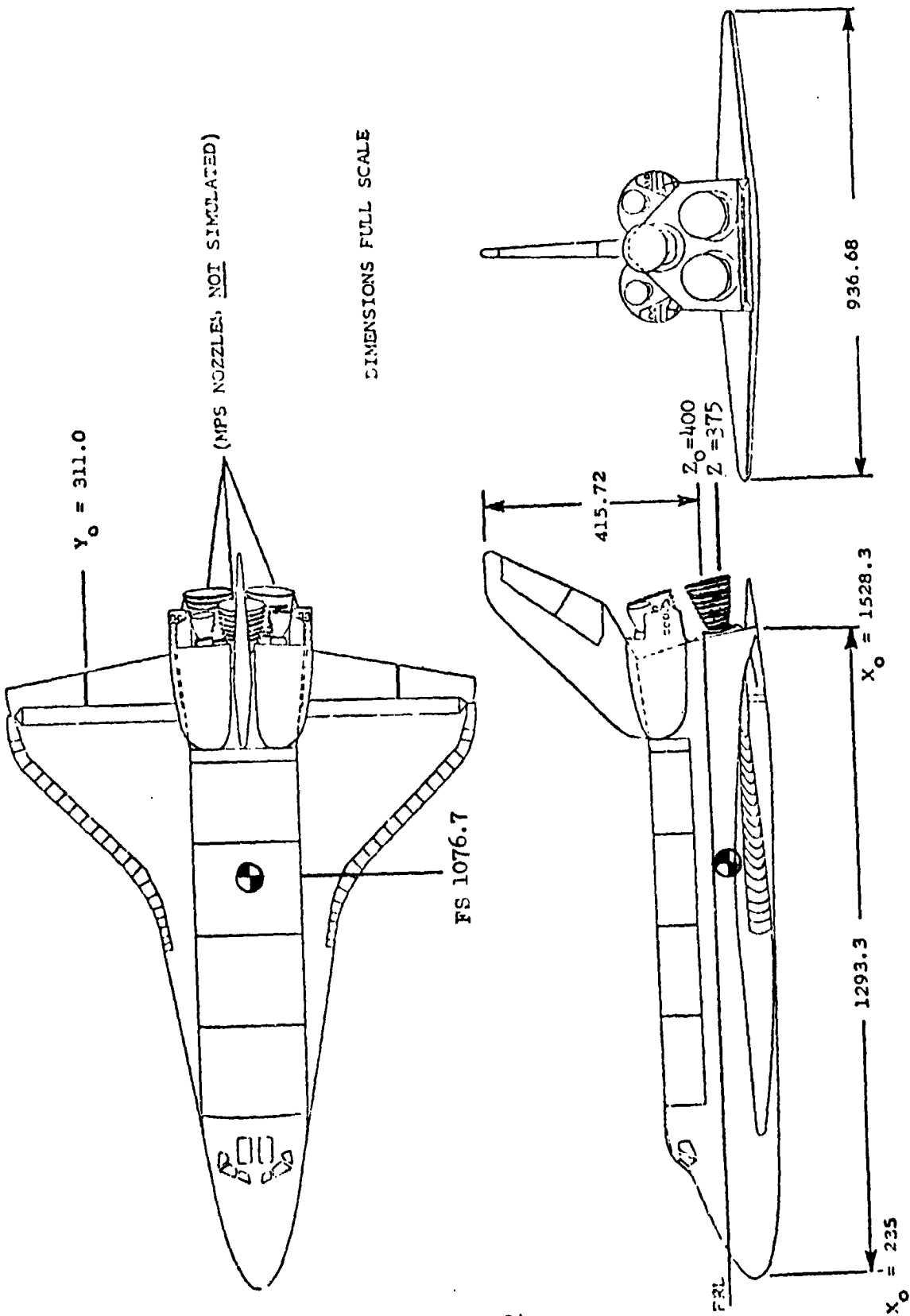
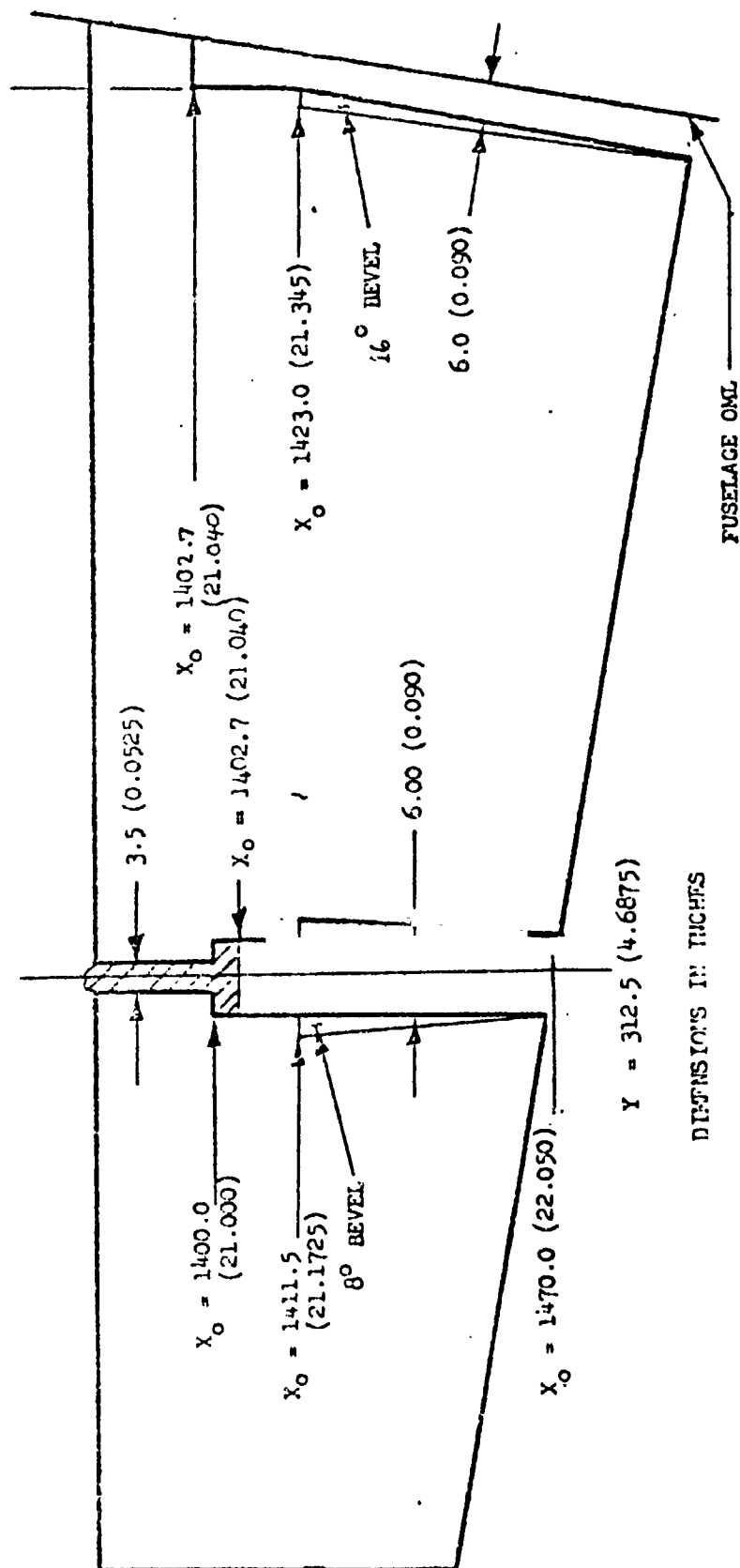


Figure 1. - Axis Systems.



(a) SSV Orbiter Configuration
Figure 2. - Model sketches.

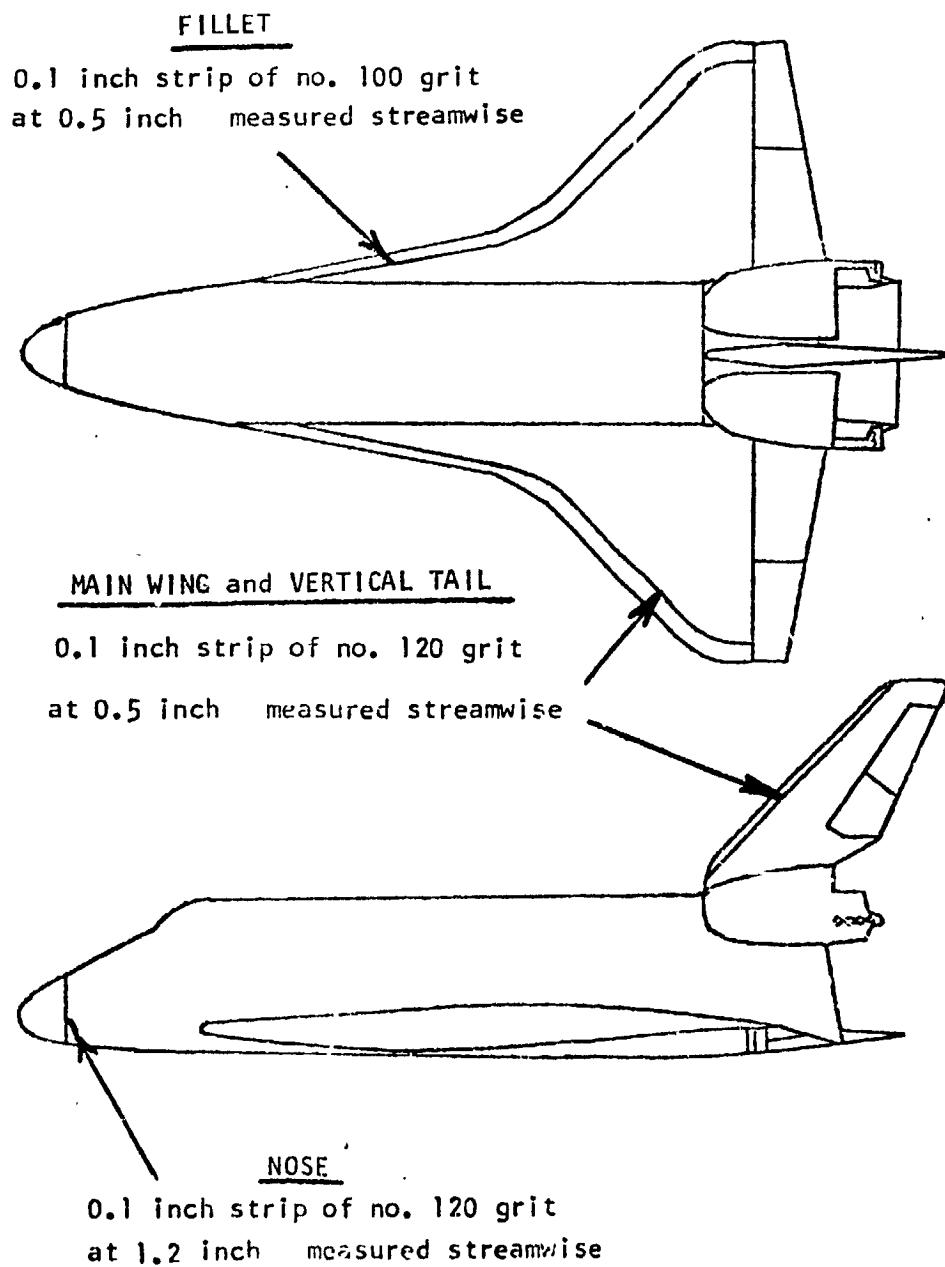
$Y = 128.50 (1.928)$



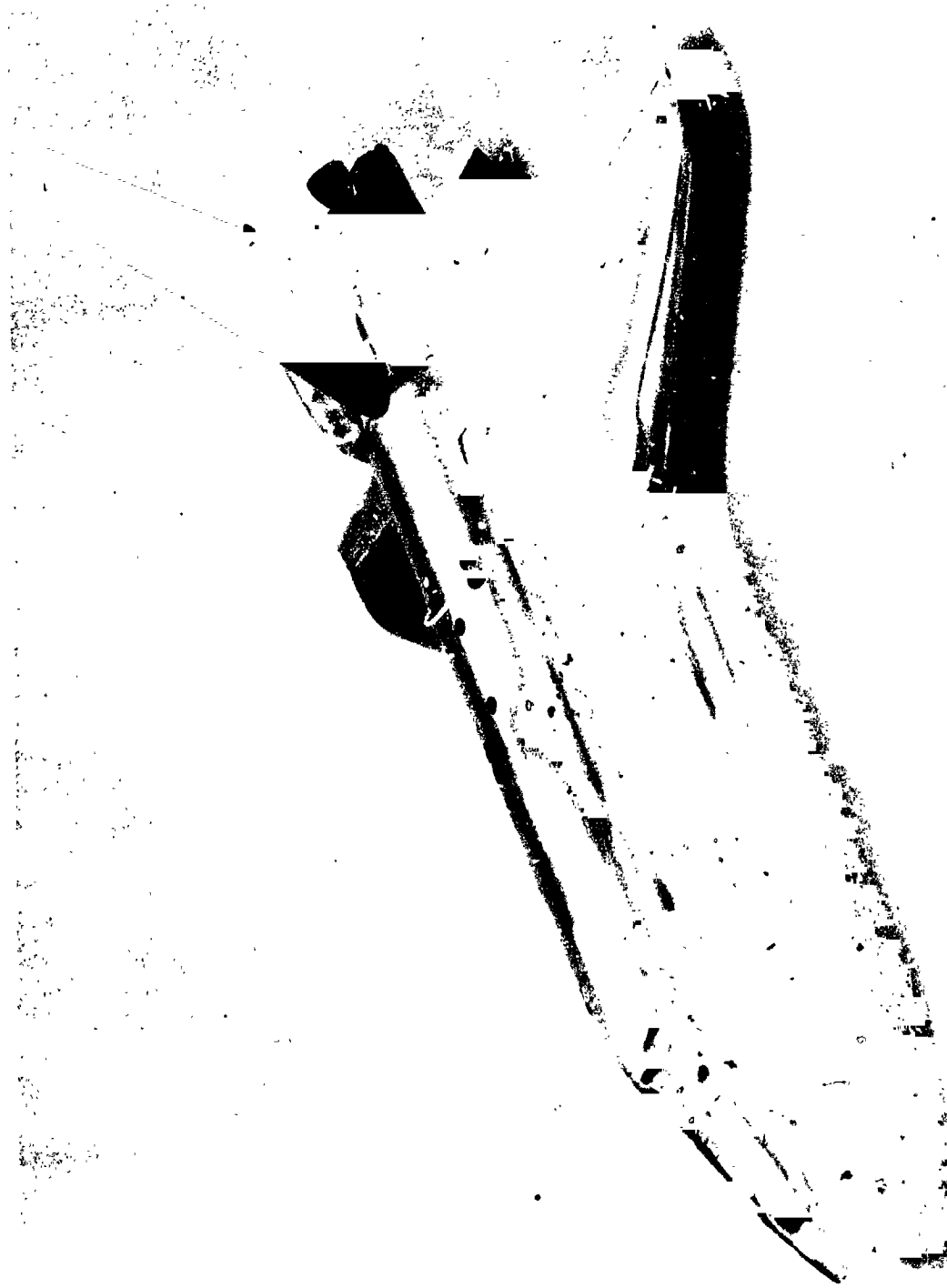
DIMENSIONS IN INCHES

b. Slotted Elevon E43 (6-inch gap)

Figure 2. - Continued.

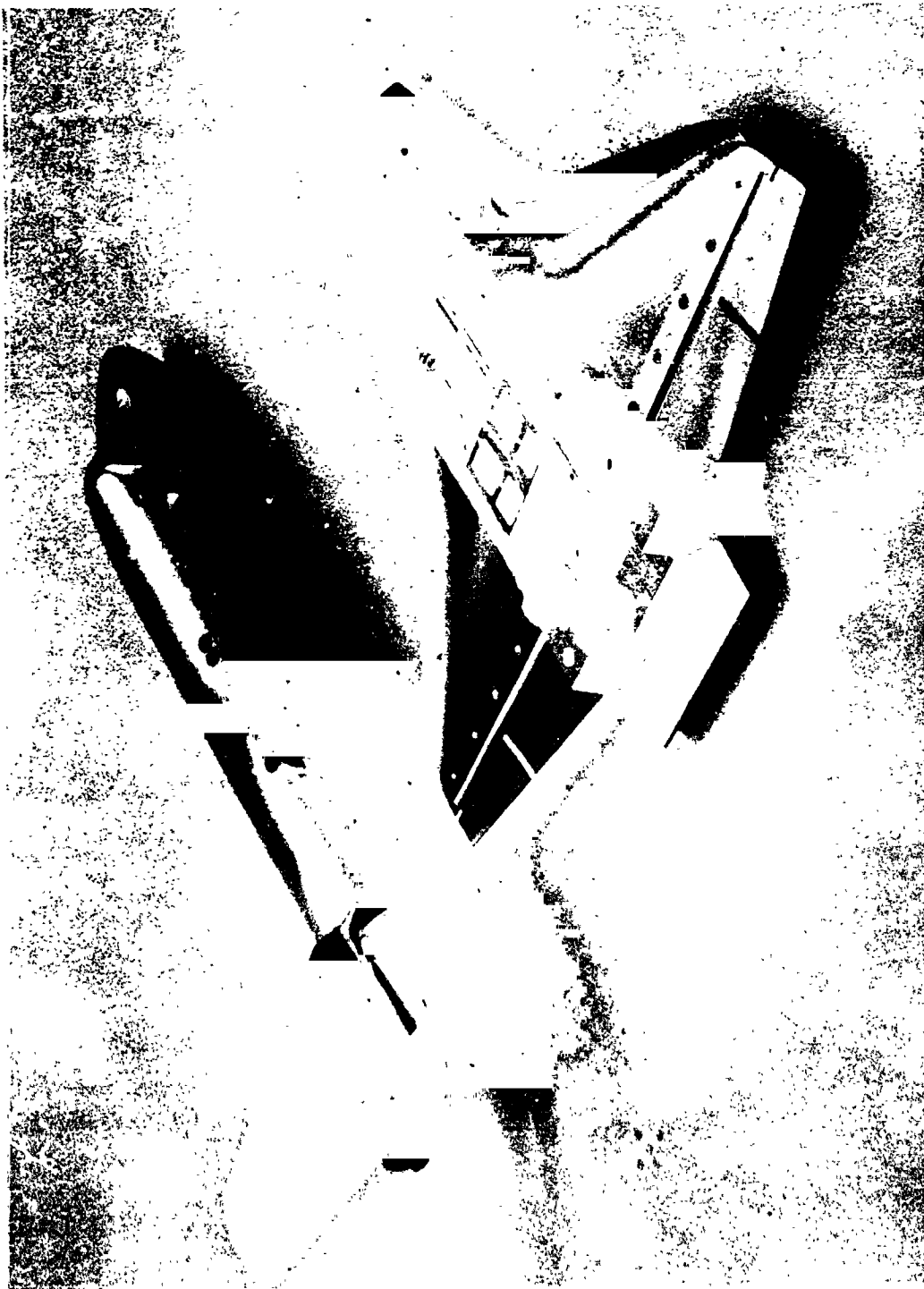


c. Position of Transition Grit Used in Investigation
Figure 2. - Concluded.



a. Orbiter Configuration, Front 3/4 View
Figure 3. - Model Photographs

ORIGINAL PAGE IS
OF POOR QUALITY



b. Orbiter Configuration, Rear 3/4 View
Figure 3. - Continued.

DATA FIGURES

(PJT008) LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W

SYMBOL	MACH	BETA	RUDDER	BD FLAP	SPOBRK	ELEVON
□	.150	.000	.000	.000	.000	.000
◇	.200	.000	.000	.000	.25	.000
△	.250	.000	.000	.000	.000	.000
	.289	.000	.000	.000	.000	.000
	.349	.000	.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ. FT.
LREF	474.8000	INCHES
BREF	936.6800	INCHES
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO

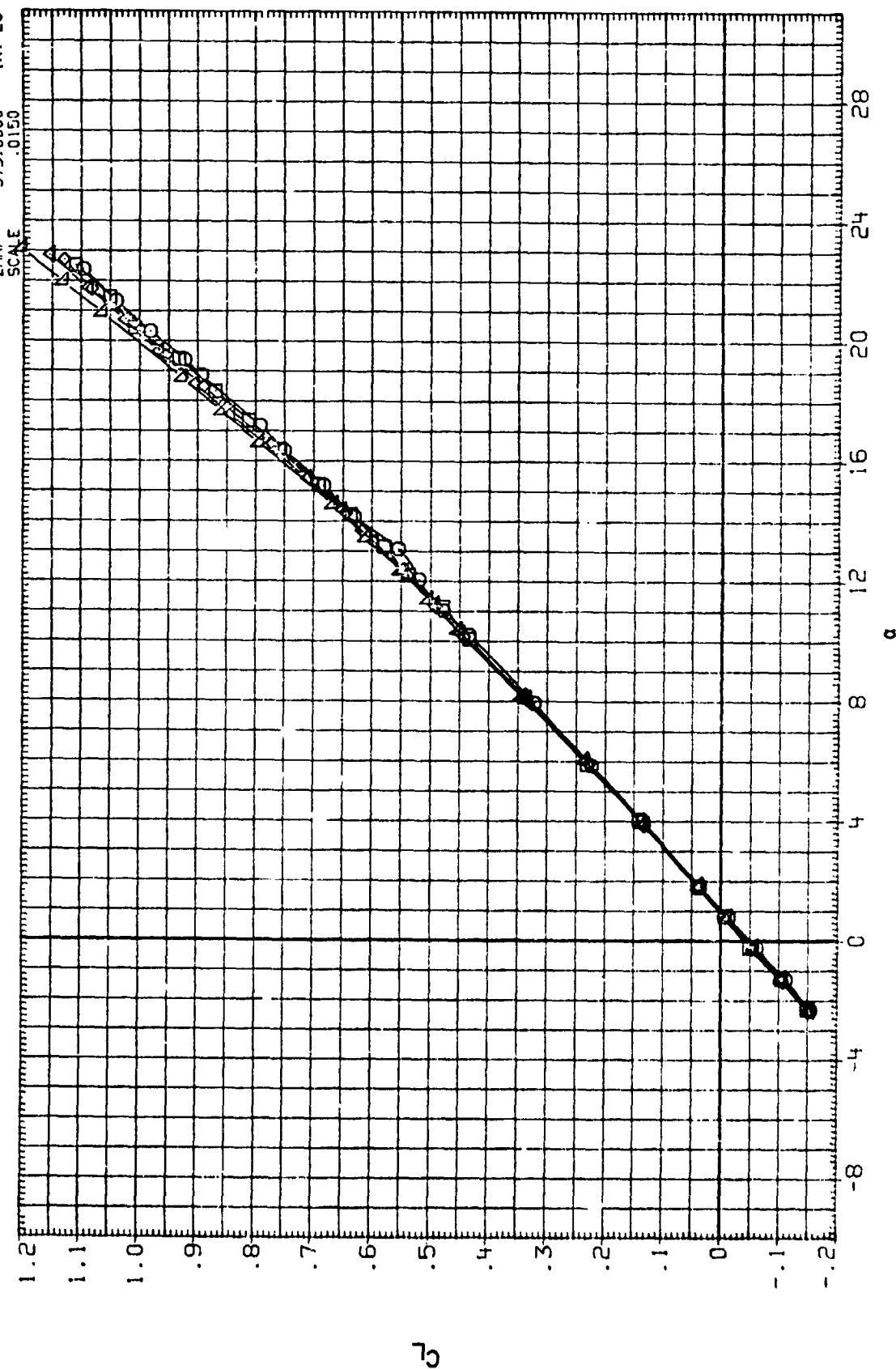


FIGURE 4. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, RN/L = 4.0

(PJT008) LARC I.TPT 228(LA61B)B26C9E43F8M16N28R5V8W

SYMBOL MACH
□ .150
◇ .200
△ .250
▲ .289
▲ .349

PARAMETRIC VALUES
BOFLAP .000
SPCRK 25.000
ELEVON .000
RNL 4.000
ATLON .000

REFERENCE INFORMATION
SREF 2690.0000 50.FT.
LREF 474.8000 INCHES
BREF 936.6800 INCHES
XMRP 1076.7000 IN. XO
YMRP .0000 IN. YO
ZMRP 375.0000 IN. ZO
SCALE .0150

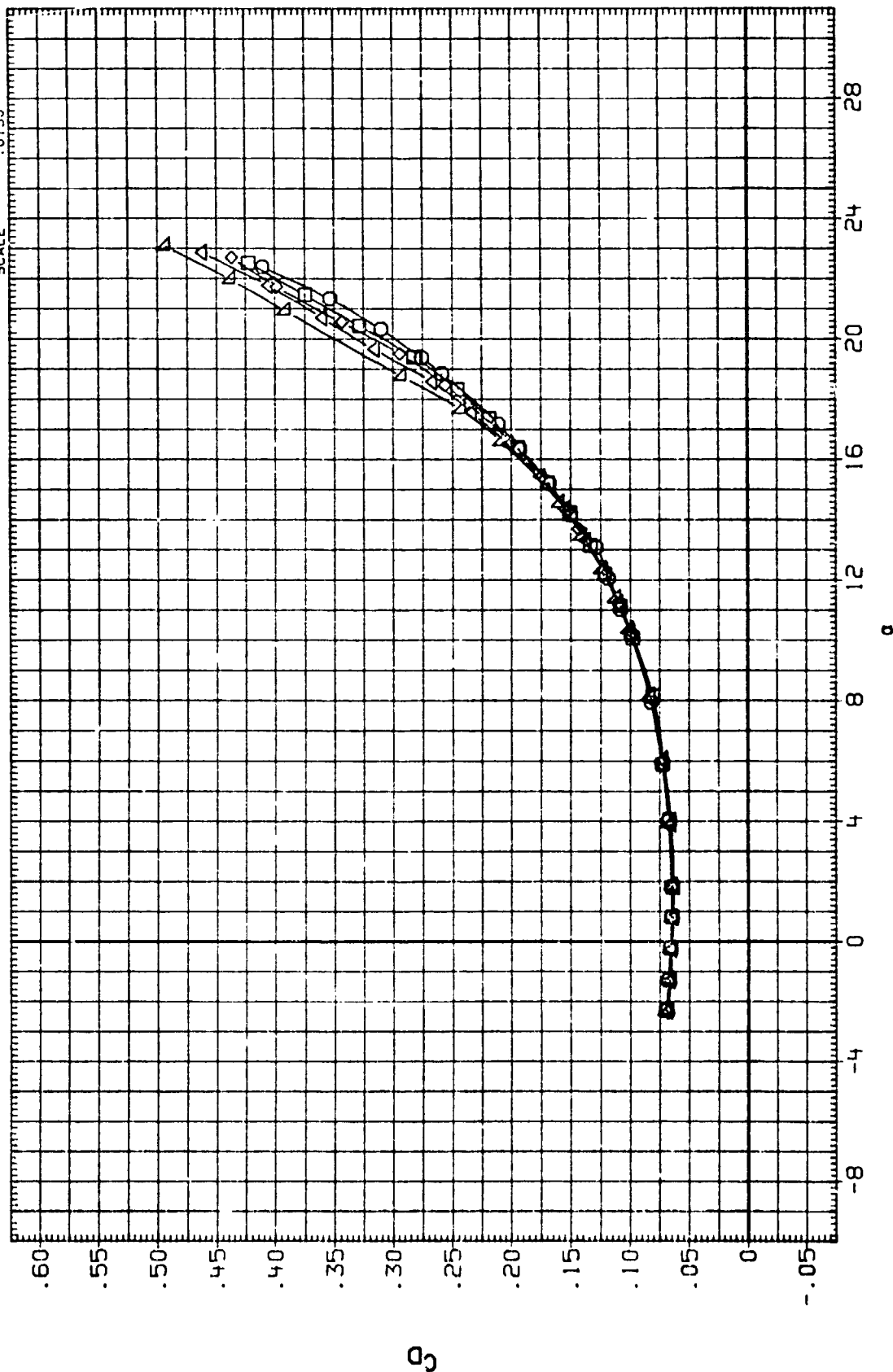


FIGURE 4. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, RN/L= 4.0

(PJT008) LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8W

SYMBOL	MACH	BETA	RUDDER	AILRON	PARAMETRIC VALUES	BD FLAP	SPDRK	ELEVON
□	.150	.000	.000	.000	.000	.000	.000	.000
○	.200	.000	.000	.000	.000	.000	.000	.000
△	.250	.000	.000	.000	.000	.000	.000	.000
◇	.283	.000	.000	.000	.000	.000	.000	.000
◇	.349	.000	.000	.000	.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	INCHES
BREF	936.6800	IN. X0
XMRP	1076.7000	IN. Y0
VMRP	.0000	IN. Z0
ZMRP	375.0000	IN. Z0
SCALE	.0150	

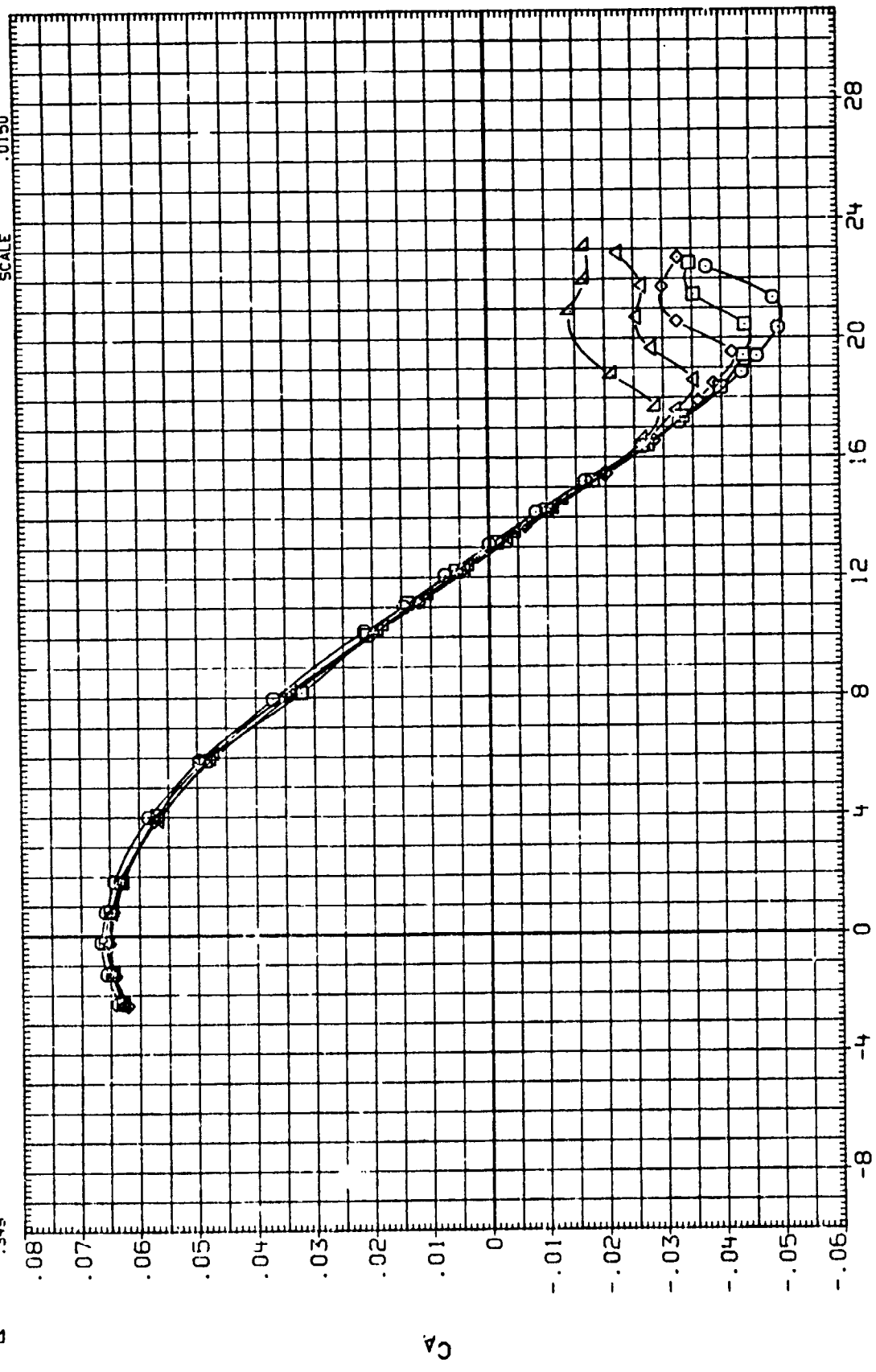


FIGURE 4. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, RN/L = 4.0

(PJT008) LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8W

SYMBOL MACH

□ 0.150
◇ 0.200
△ 0.250
▽ 0.289
▲ 0.349

BETA
RUDDER
RN/L
AILRON

PARAMETRIC VALUES

BCFLAP .000
SPDRBK .000
ELEVON .000
RN/L .000
AILRON .000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8000 INCHES
BREF 936.6800 INCHES
XMRP 1076.7000 IN. XO
YMRP .0000 IN. YO
ZMRP 375.0000 IN. ZO
SCALE .0150

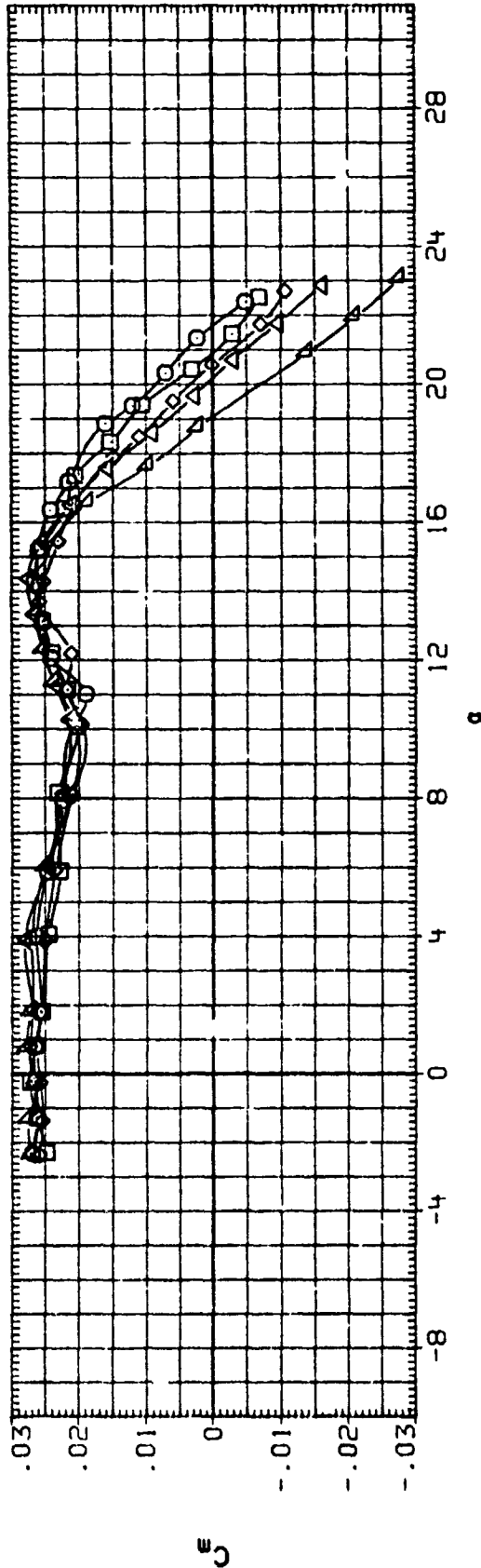
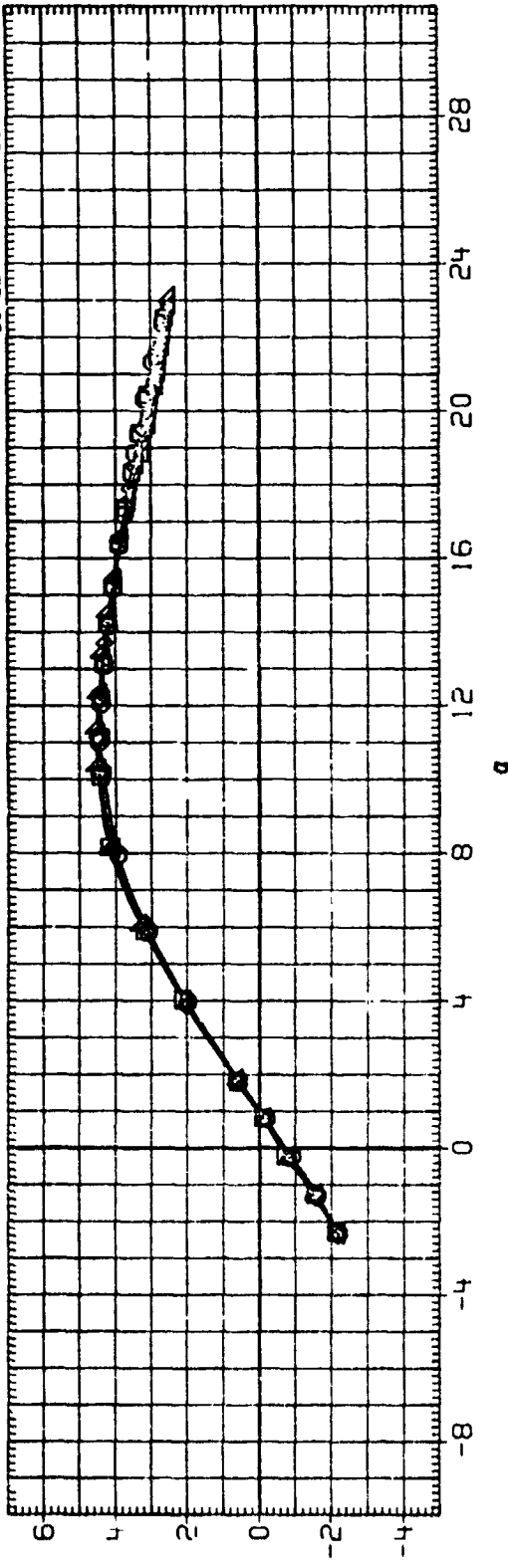


FIGURE 4. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, RN/L= 4.0

(PJT008) LARC LTPT 228(LA619)B26C9E43F8M16N28R5V8W

SYMBOL	MACH	BETA	RUDDER	AILLON	PARAMETRIC VALUES	BOFLAP	SPDRK	ELEVON
□	.150	.000	.000	.000		.000	.25	.000
◇	.200	.000	.000	.000		.000	.000	.000
△	.250	.000	.000	.000		.000	.000	.000
▽	.289	.000	.000	.000		.000	.000	.000
▽	.349	.000	.000	.000		.000	.000	.000

REFERENCE INFORMATION	
SREF	2690.0000 SQ. FT.
LREF	474.8000 INCHES
BREF	936.6800 INCHES
XMRP	1076.7000 IN. XO
YMRP	.0000 IN. YO
ZMRP	375.0000 IN. ZO
SCALE	.0150

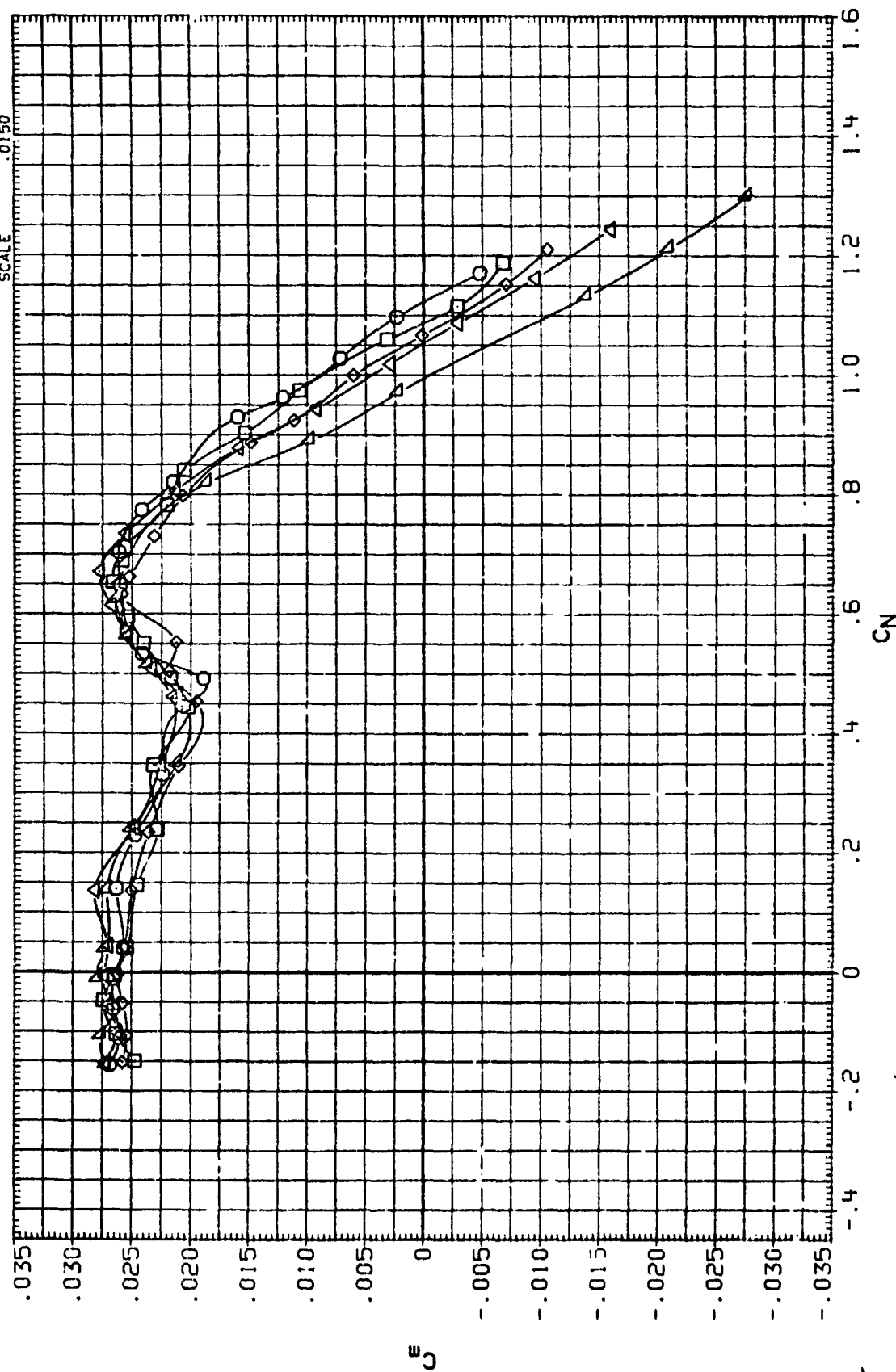


FIGURE 4. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, RN/L= 4.0

REFERENCE INFORMATION		
		SO. FT.
SREF	2690.0000	INCHES
LREF	474.8000	INCHES
BREF	936.6800	IN. X0
XMRP	1076.7000	IN. Y0
YMRP	.0000	IN. Z0
ZMRP	375.0000	
SCALE	.0150	

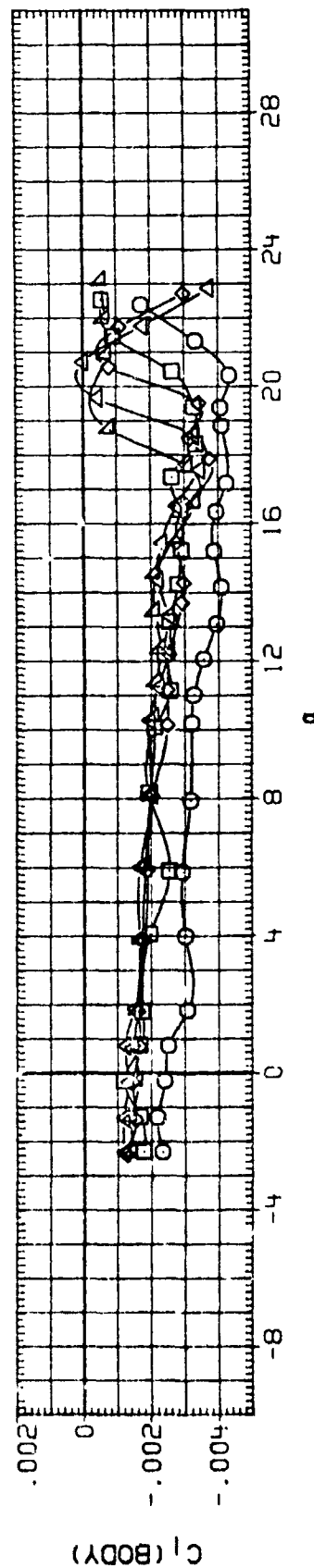
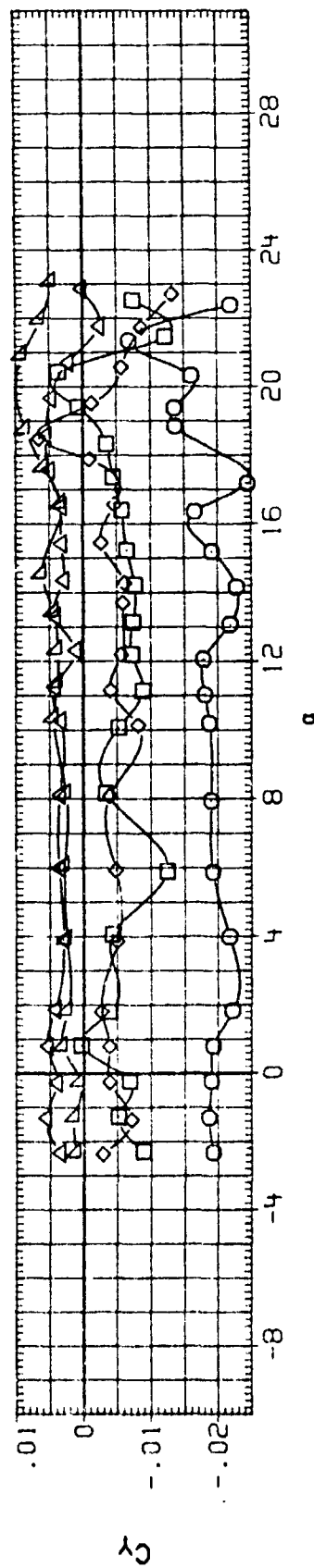
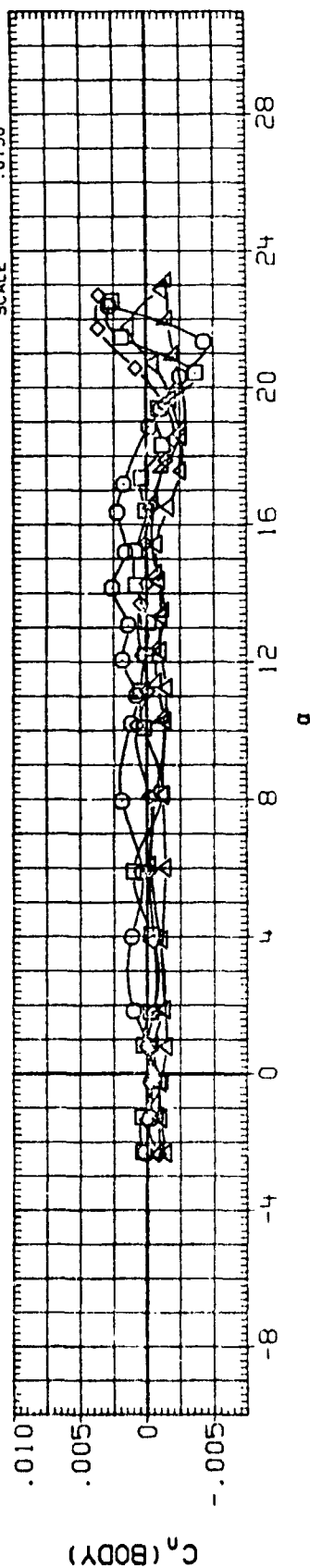


FIGURE 4. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, $RN/L = 4.0$

(QJT008) LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W

SYMBOL MACH
 □ .150
 ◇ .200
 △ .250
 ▲ .289
 ◆ .349

BETA
 RUDDER
 RN/L
 ALLRON

PARAMETRIC VALUES
 BDFLAP .000
 SPDBRK .000
 ELEVON .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.8000 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

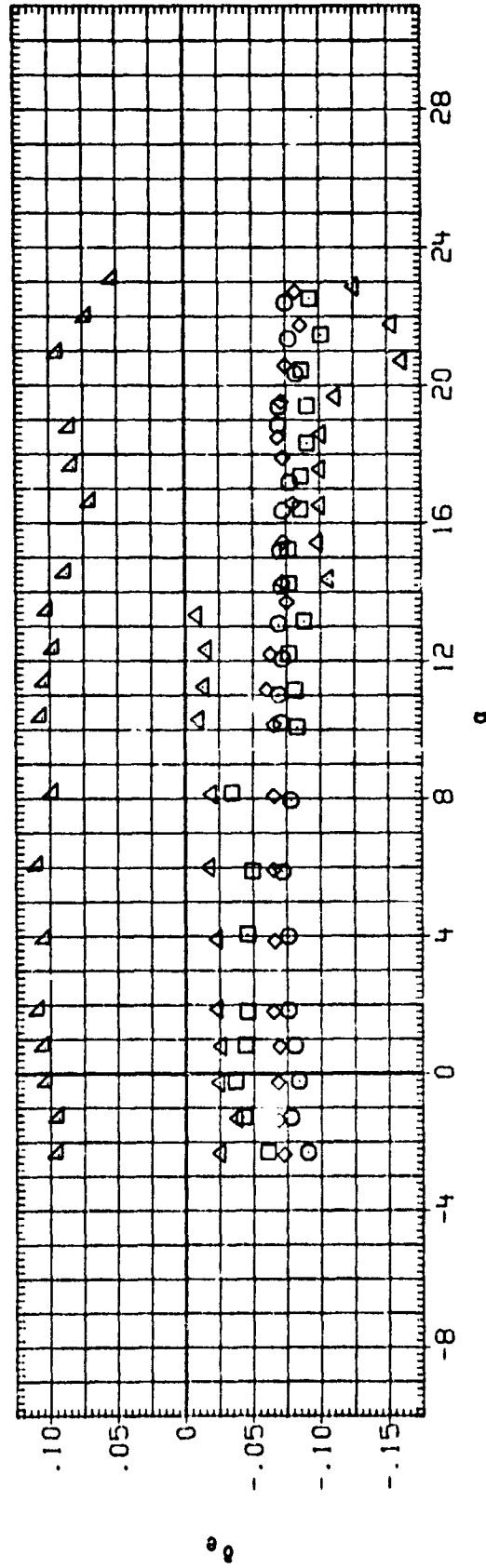
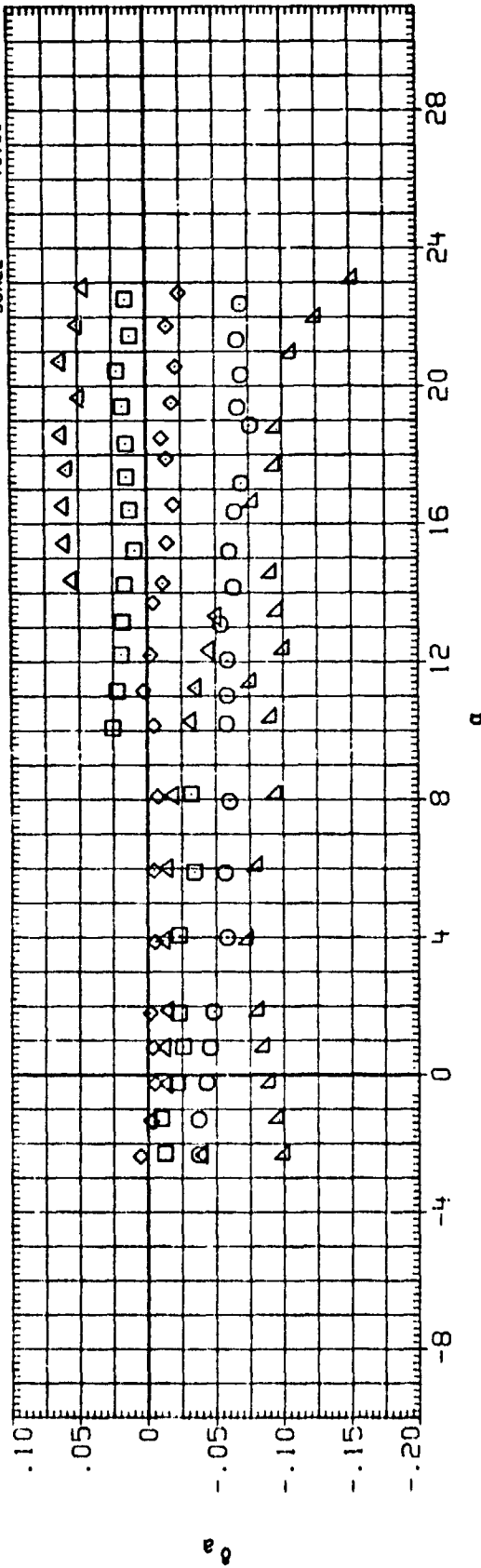


FIGURE 4. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, $RN/L = 4.0$

(RJ1011) LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W

SYMBOL

MACH

□

◇

△

BETA
RUDDER
RN/L
ATLON

.151
.200
.250
.300

PARAMETRIC VALUES

BOFLAP
SPOBRK
ELEVON

.000
.000
25.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.
LREF 474.8000 INCHES
BREF 936.6800 INCHES
XMRP 1076.7000 IN. XO
YMRP .0000 IN. YO
ZMRP 375.0000 IN. ZO

SCALE

.0150

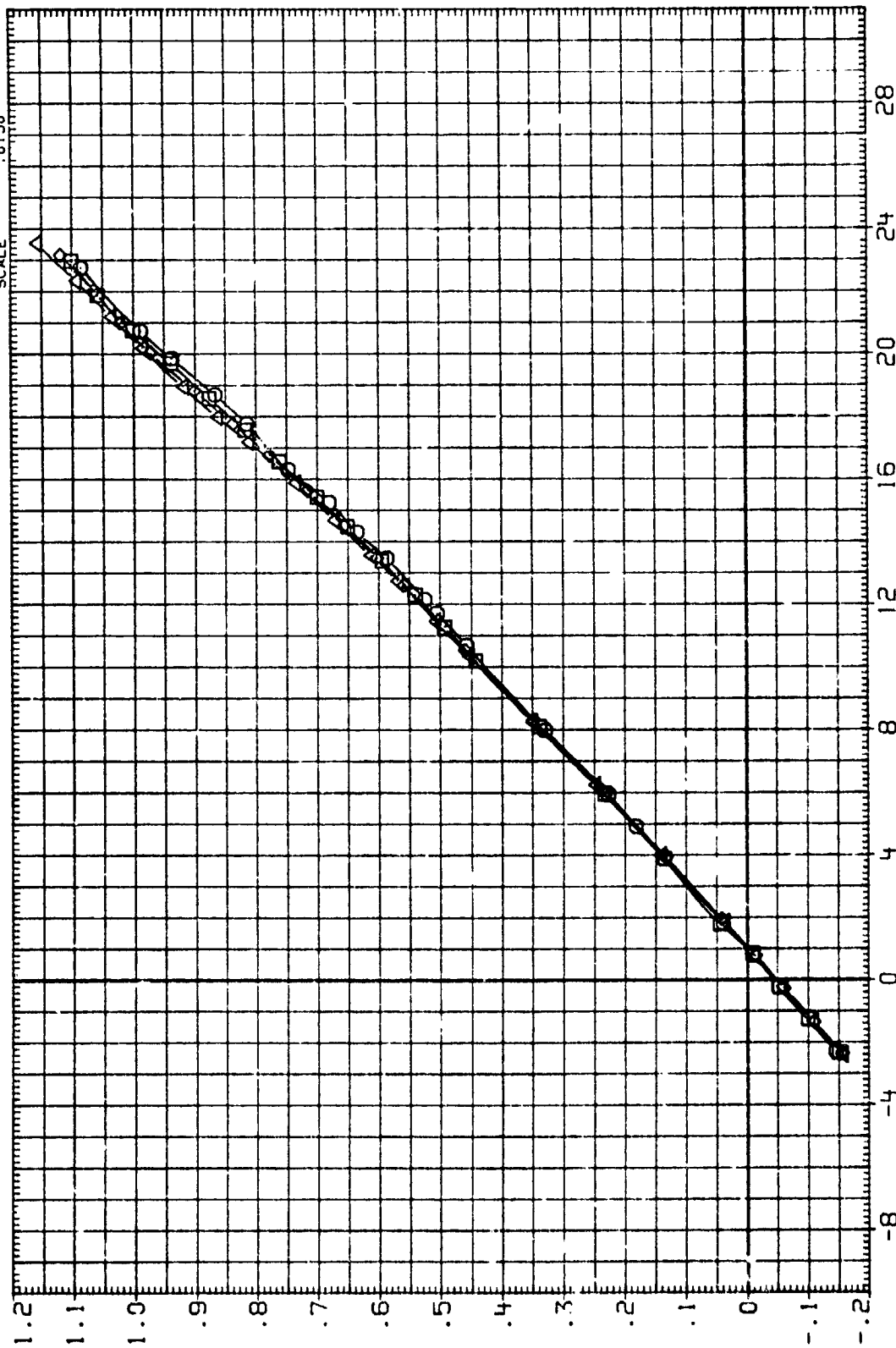


FIGURE 5. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, $RN/L = 6.0$

(RJ1011) LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W

SYMBOL

MACH
 .151
 .200
 .250
 .300

BETA
 RUDDER
 RN/L
 ALLRON

PARAMETRIC VALUES

BOFLAP .000
 SPOBRK 25.000
 ELEVON .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

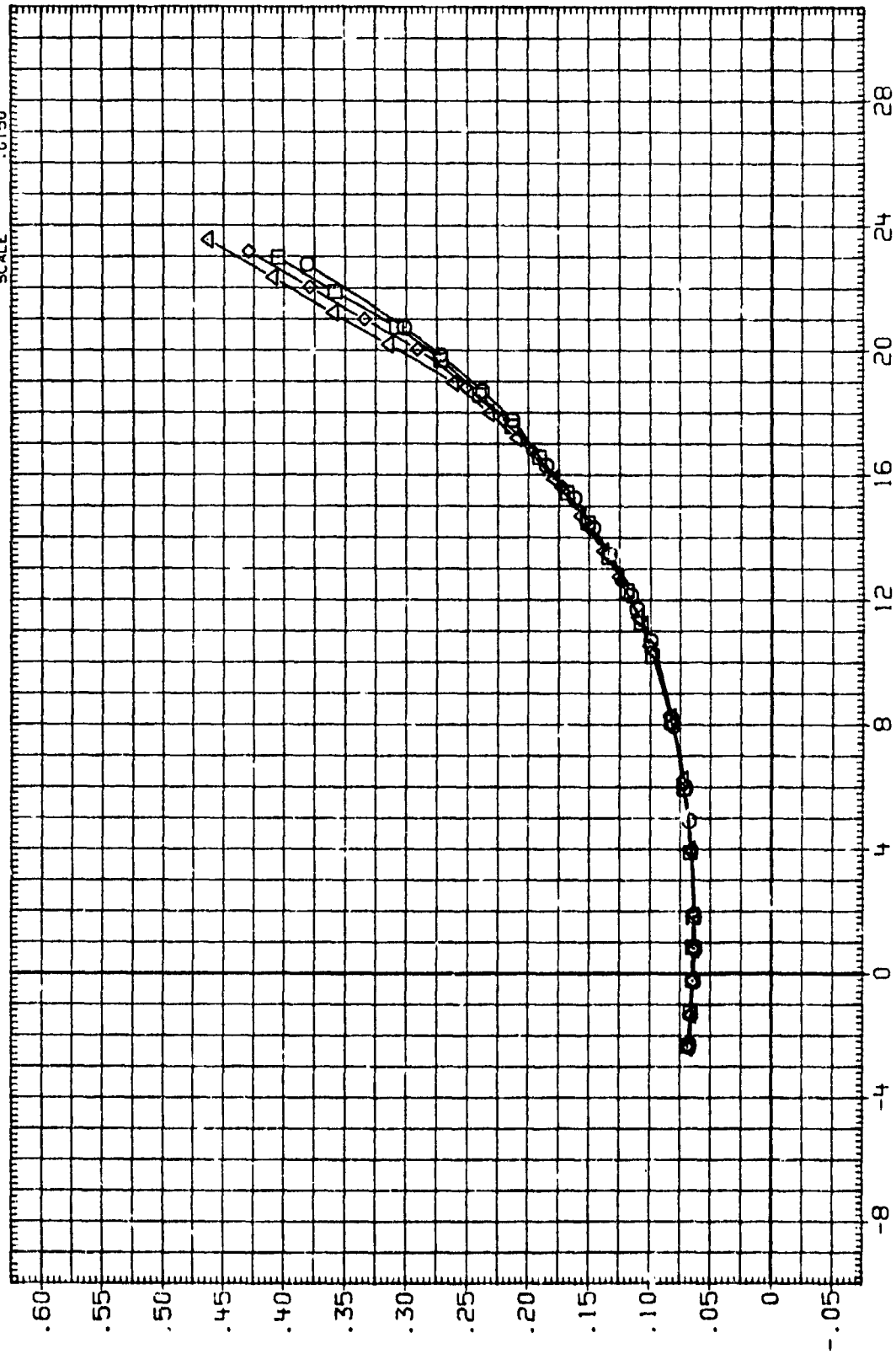


FIGURE 5. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 3 DEGREES, RN/L = 6.0

(RJ1011) LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W

SYMBOL	MACH	BETA	RUDDER	AILRON	PARAMETRIC VALUES	BD FLAP	SPDBRK	ELEVON
△	.151	.000	.000	.000	.000	.000	.000	.000
□	.200	.000	.000	.000	.000	.000	.000	.000
○	.250	.000	.000	.000	.000	.000	.000	.000
△	.300	.000	.000	.000	.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	50.FT.
LREF	474.8000	INCHES
PREF	936.6600	INCHES
XMRP	1076.7000	IN. X0
YMRP	.0000	IN. Y0
ZMRP	375.0000	IN. Z0
SCALE	.0150	

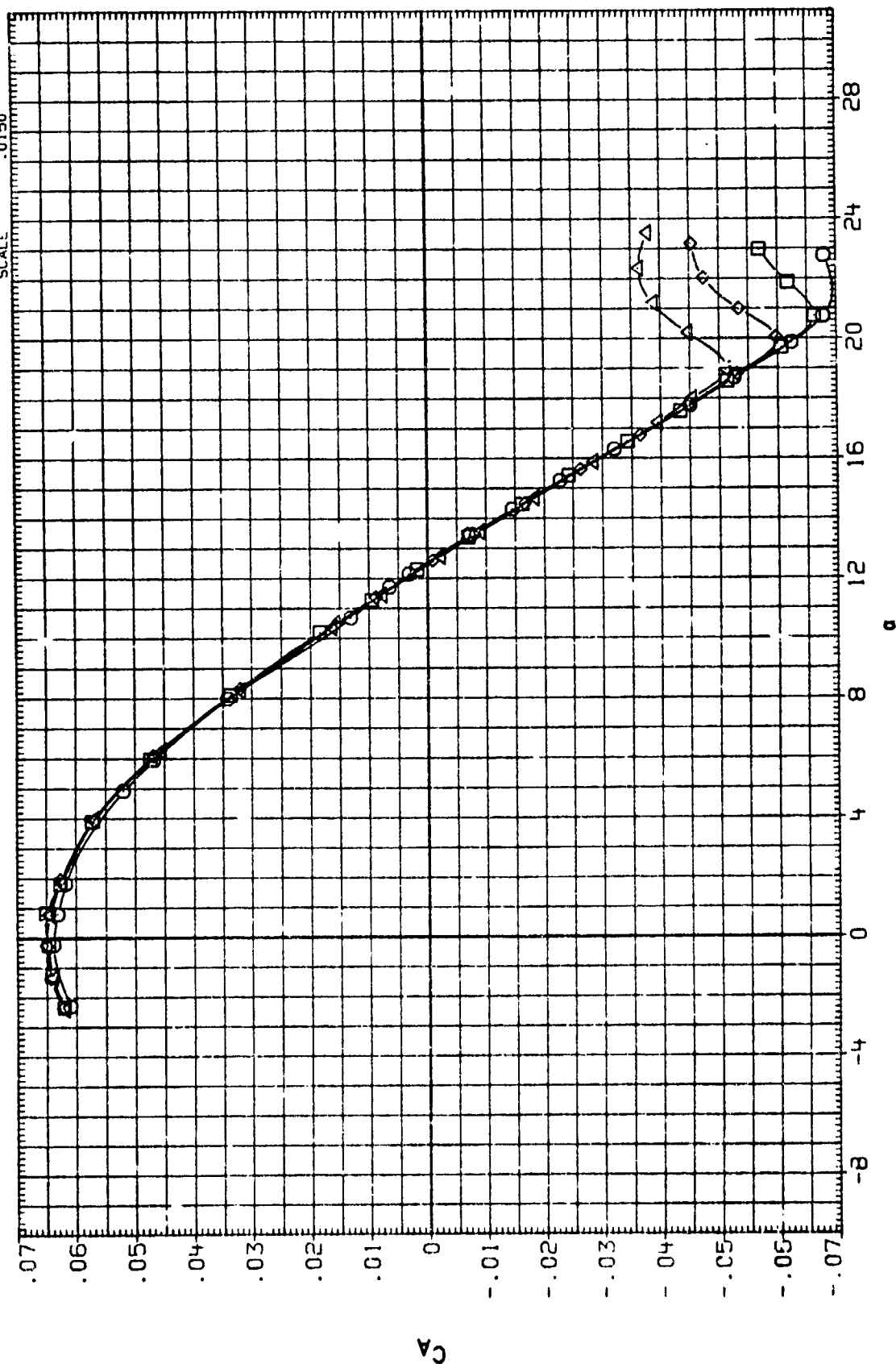


FIGURE 5. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, RN/L = 6.0

(RJ1011) LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W

SYN-30L MACH
 .151
 .200
 .250
 .300

BETA
 RUDDER
 RN/L
 AILRON

PARAMETRIC VALUES
 .000
 .000
 6.000
 .000

BOFLAP
 SPDRK
 ELEVON

.000
 25.000
 .000

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 YMRP 1076.7000 IN. X0
 ZMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

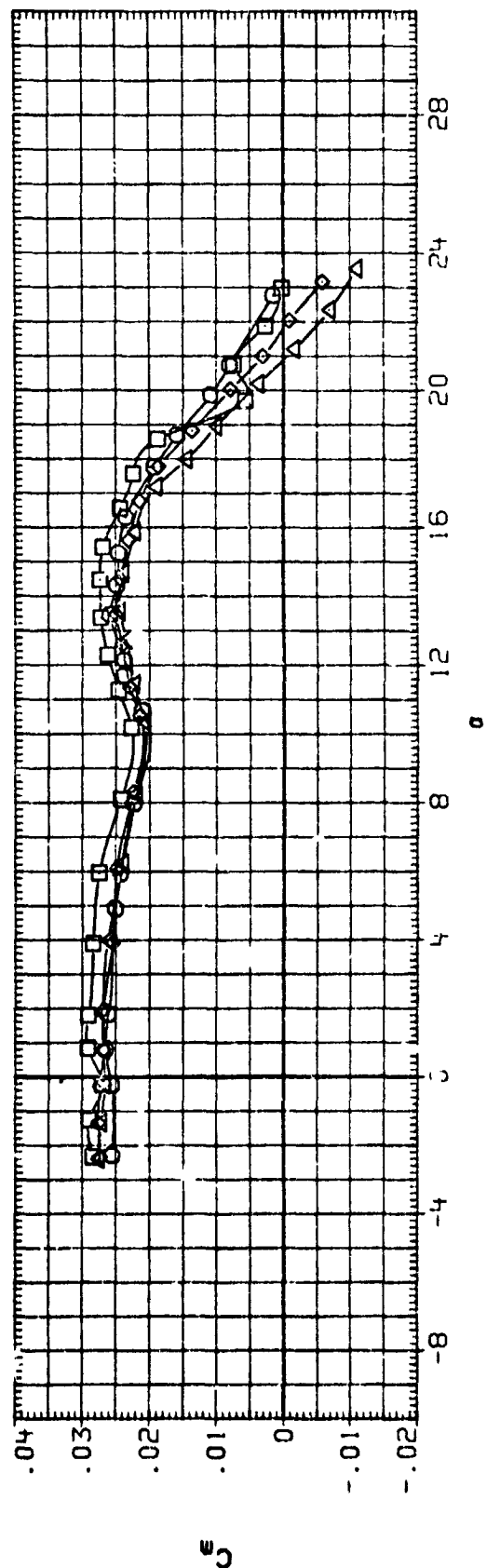
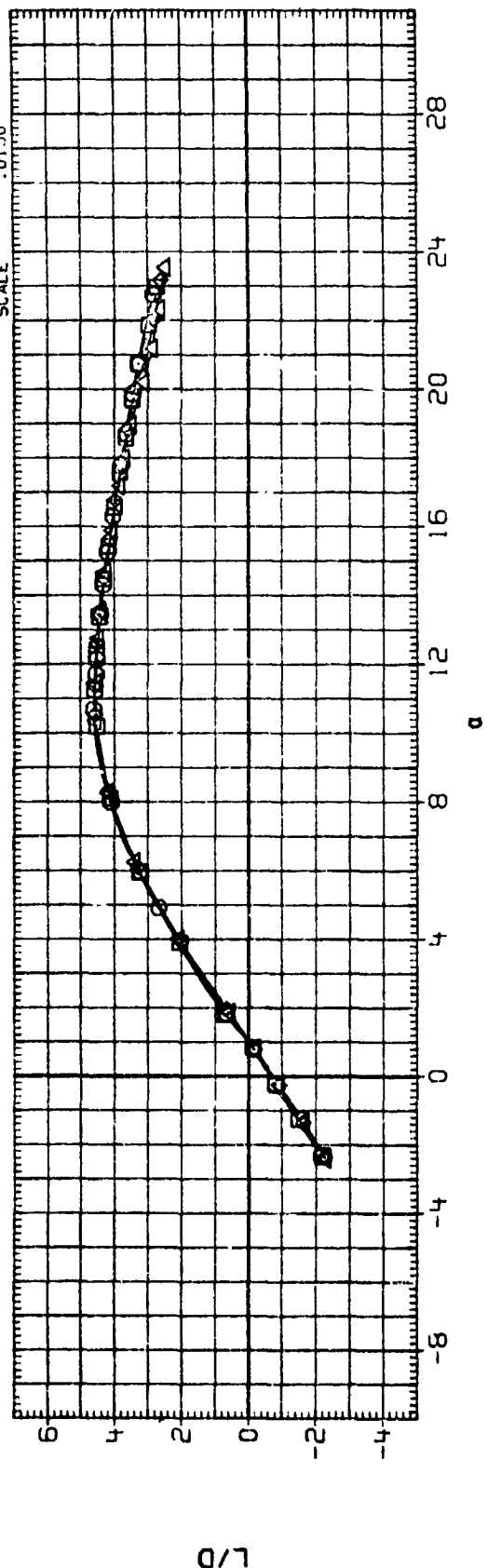


FIGURE 5. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, RN/L = 6.0

(RJ011) LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W

SYMBOL	MACH	BETA	RUDDER	AILRON	PARAMETRIC VALUES	BOFLAP	SPDBRK	ELEVON
□	.151	.000	.000	.000	.000	.000	.000	.000
◇	.200	.000	.000	.000	.000	.000	.000	.000
△	.250	.000	.000	.000	.000	.000	.000	.000
	.300	.000	.000	.000	.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	INCHES
BREF	936.8000	INCHES
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

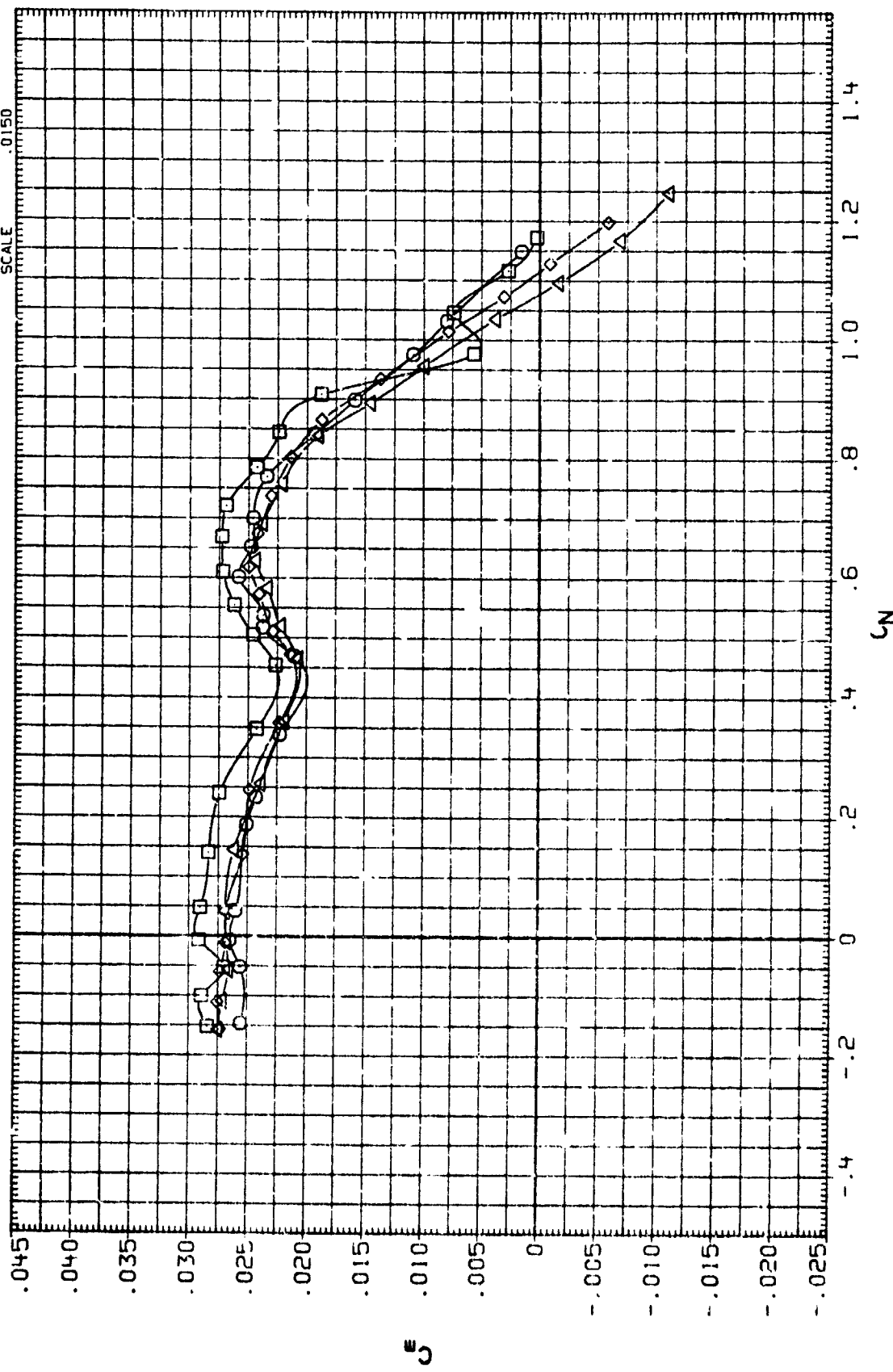


FIGURE 5. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, RN/L= 6.0

(RJ1011) LARC LTPT 226(LAG1B)B26C9E43F8M16N28R5V8W

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION			
		BETA	RUDDER	SPDBRK	BD FLAP	SREF	2690.0000	SQ. FT.	INCHES
○	.151	.000	.000	.000	.000	LREF	474.8000	INCHES	IN. XO
□	.200	.000	.000	.000	.000	BREF	936.6800	IN. XO	IN. YO
△	.250	.000	.000	.000	.000	YMRP	1076.7000	IN. YO	IN. ZO
◇	.300	.000	.000	.000	.000	ZMRP	375.0000	IN. ZO	SCALE
									.0150

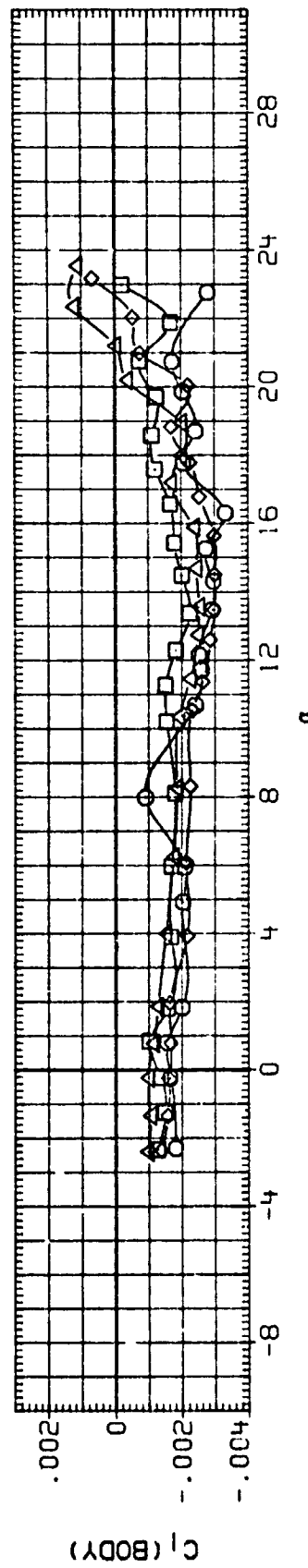
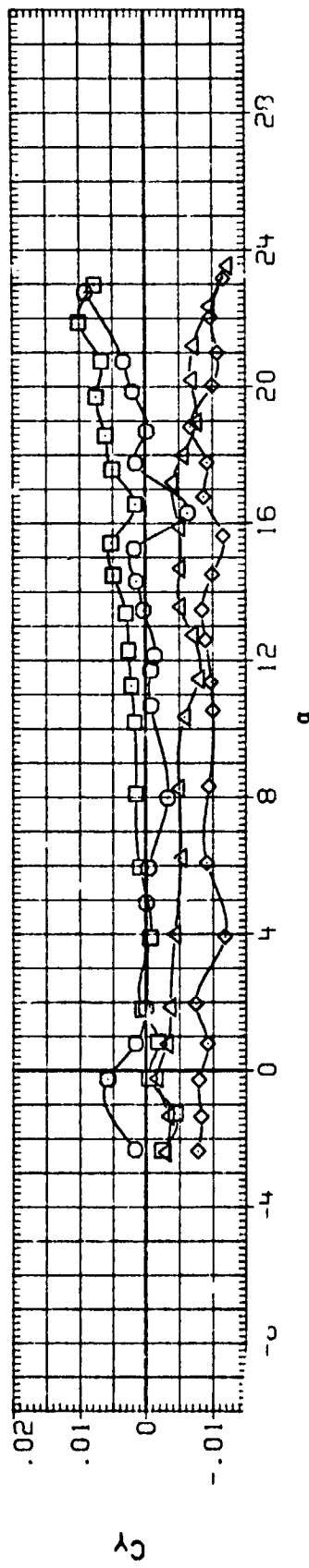
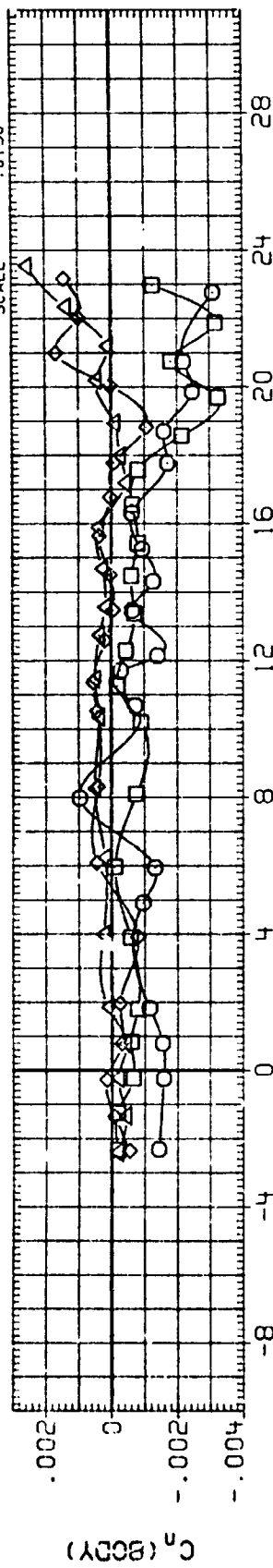


FIGURE 5 EFFECT OF MACH' NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, $RN/L = 6.0$

(SJT011) LARC LTPT 228(LA61B)B26C9E43F8M16N28R5VBW

SYMBOL MACH

0.151
0.200
0.250
0.300

BETA
RUDDER
RN/L
AILRON

BDFLAP
SPDBRK
ELEVON

.000
.000
6.000
.000

.000
25.000
.000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8000 INCHES
BREF 936.8800 INCHES
XMRP 1076.7000 IN. XO
YMRP .0000 IN. YO
ZMRP 375.0000 IN. ZO
SCALE .0150

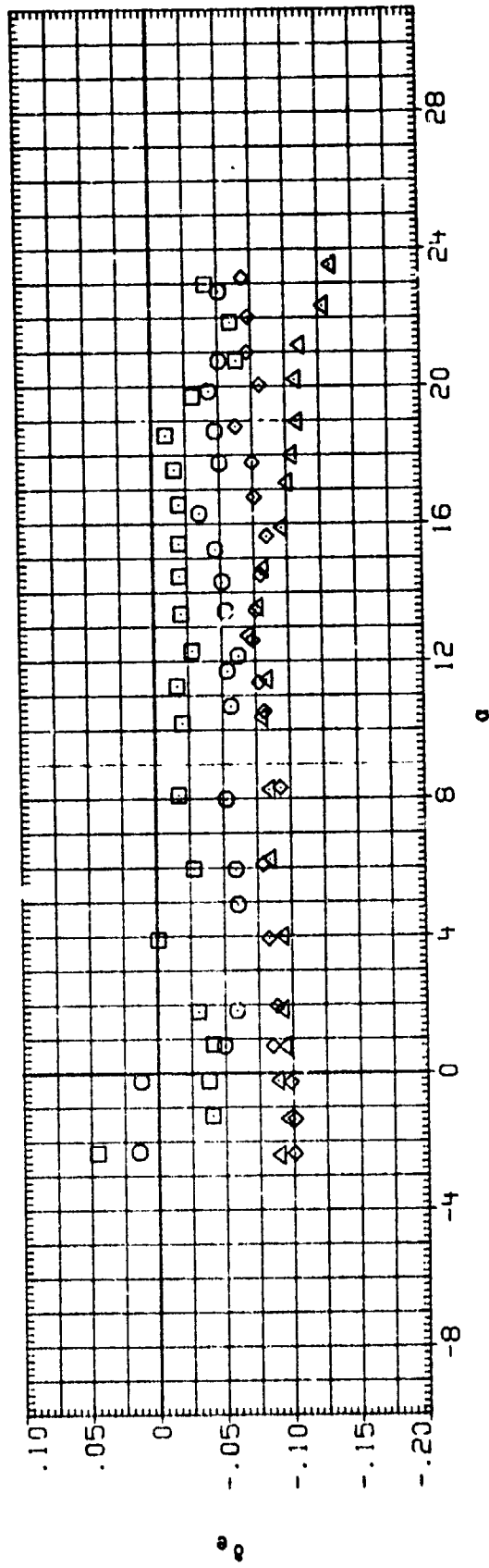
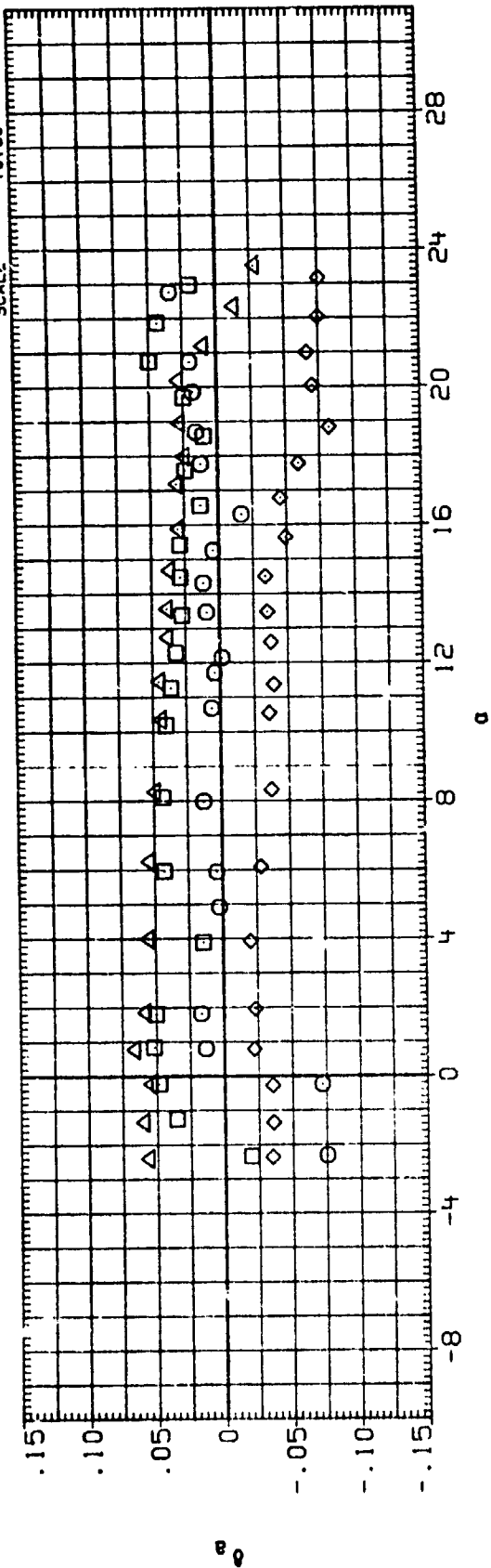


FIGURE 5. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, RN/L = 6.0

(PJT017) LARC LTFT 228(LA61B)B26C9E43F8M16N28R5V8W

SYMBOL MACH
 O .151
 □ .202
 △ .255

PARA-METRIC VALUES
 BOX LAP .000
 SPDRK .000
 ELEVON .000

BETA
 RUDDER .000
 RN/L 25.000
 ATLON 8.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 474.8000 INCHES
 BREF 936.8000 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

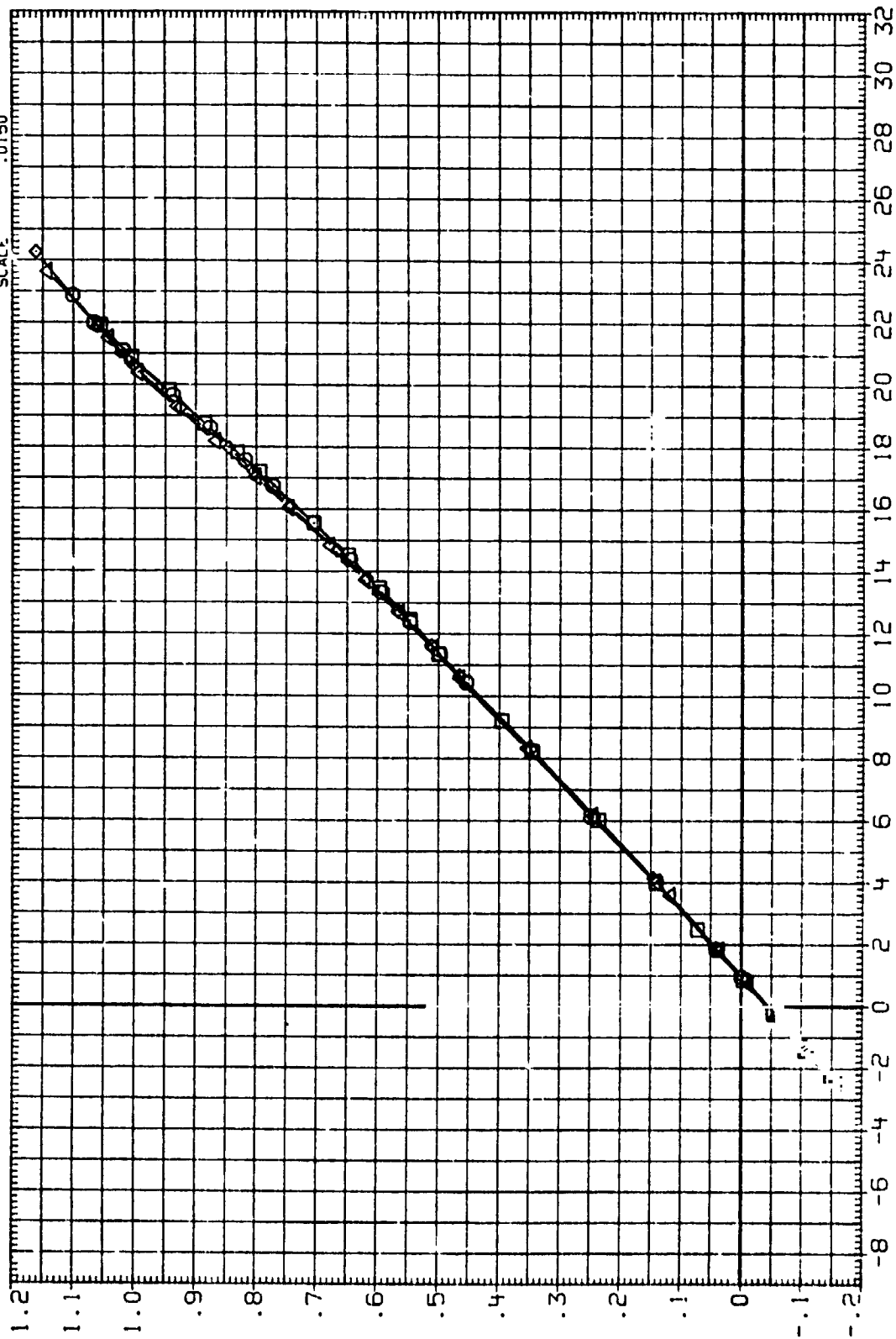


FIGURE 6. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, RN/L = 8.0

(PJT017) LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W

SYMBOL MACH

○ .151
□ .202
◇ .255
△ .291

BETA
RUDDER
RN/L
AILRON

PARAMETRIC VALUES
BDFLAP .000
SPOBRK .000
ELEVON .000

.000
25.000
.000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8000 INCHES
BREF 935.6800 INCHES
XMRP 1076.7000 IN. XO
YMRP .0000 IN. YO
ZMRP 375.0000 IN. ZO
SCALE 0.150

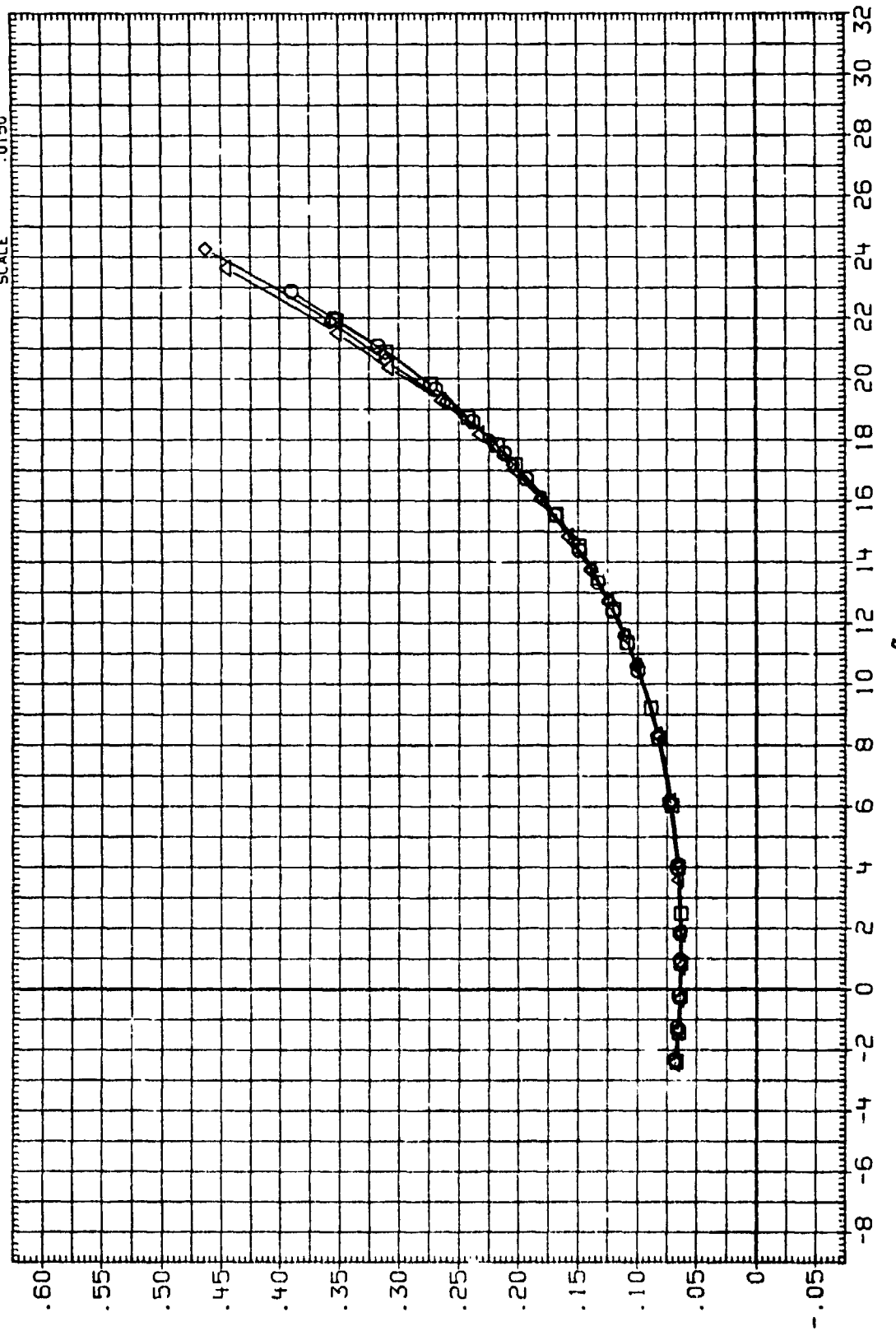


FIGURE 6. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, RN/L= 8.0

(PJT017) LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W

REFERENCE INFORMATION
SREF 2690.0000 SO.FT.
LREF 474.8000 INCHES
BREF 936.6800 INCHES
XMRP 1076.7000 IN. XO
YMRP .0000 IN. YO
ZMRP 375.0000 IN. ZO
SCALE .0150

PARAMETRIC VALUES
BDFLAP .000
SPDBRK 25.000
ELEVON .000

BETA
RUDDER
RN/L
AILRON

MACH
.151
.202
.255
.291

SYMBOL
□
◇
△

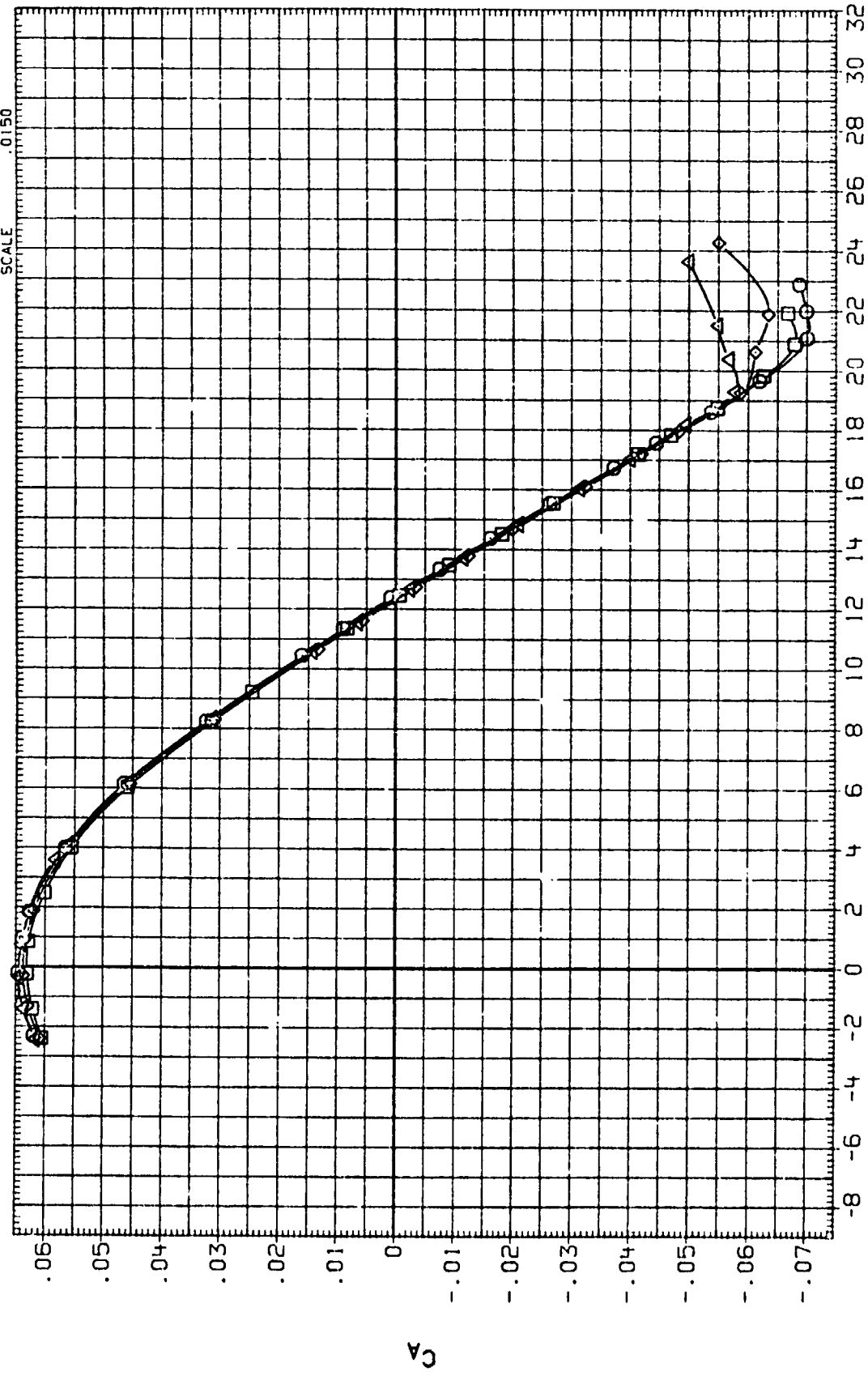


FIGURE 6. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, RN/L= 8.0

(PJT017) LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W

SYMBOL	MACH	BETA	RUDDER	AILLON	PARAMETRIC VALUES	BOFLAP	2°	SPDBRK	ELEVON
□	.151	.000	.000	.000	.000	.000	.000	.000	.000
◇	.202	.000	.000	.000	.000	.000	.000	.000	.000
△	.255	.000	.000	.000	.000	.000	.000	.000	.000
◇	.291	.000	.000	.000	.000	.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SO. FT.
LREF	474.8000	INCHES
BREF	936.6800	INCHES
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

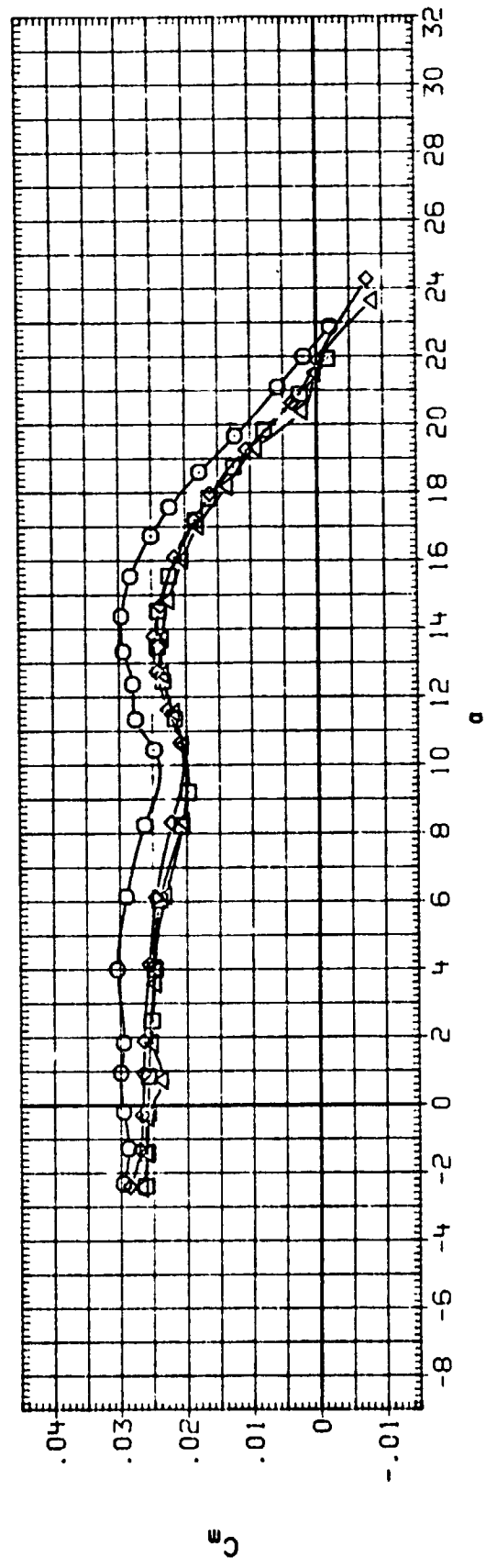
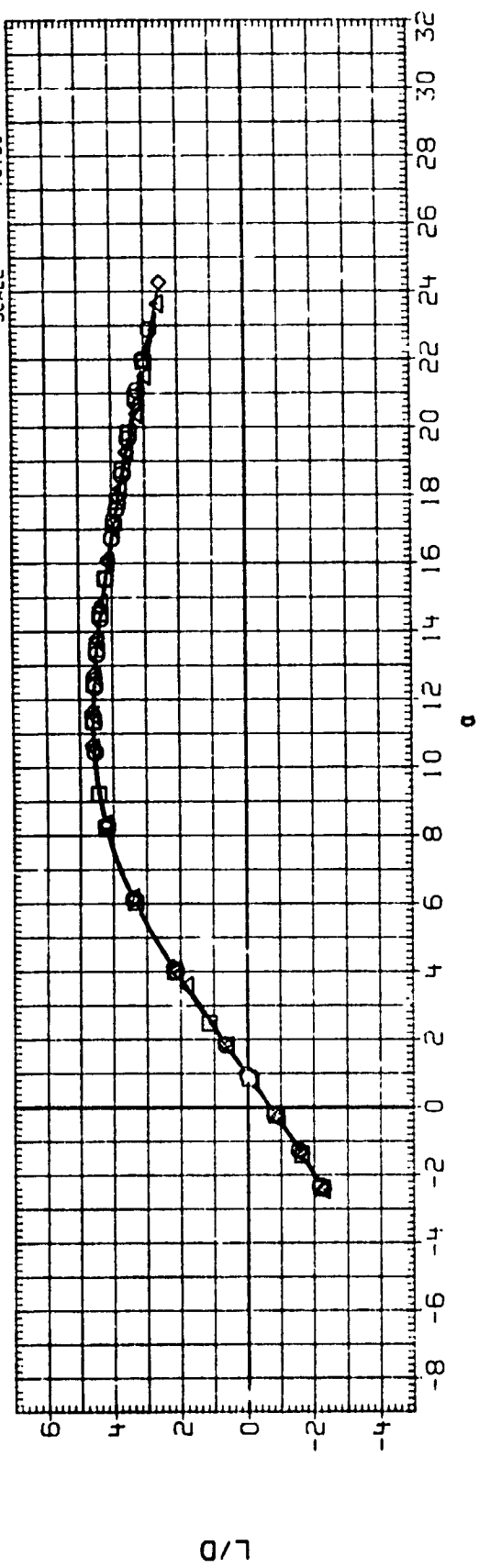


FIGURE 6. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES. RN/L = 8.0

(PJT017) LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8W

SYMBOL	MACH	BETA	RUDDER	ATLON	BOFLAP	SPOBRK	ELEVON
□	.151	.000	.000	.000	.000	.000	.000
◇	.202	.000	.000	.000	.000	.000	.000
△	.255	.000	.000	.000	.000	.000	.000
◇	.291	.000	.000	.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SO.FT.
LREF	474.8000	INCHES
BREF	936.6800	INCHES
XHRP	1076.7000	IN. XO
YHRP	.0000	IN. YO
ZHRP	375.0000	IN. ZO
SCALE	.0150	

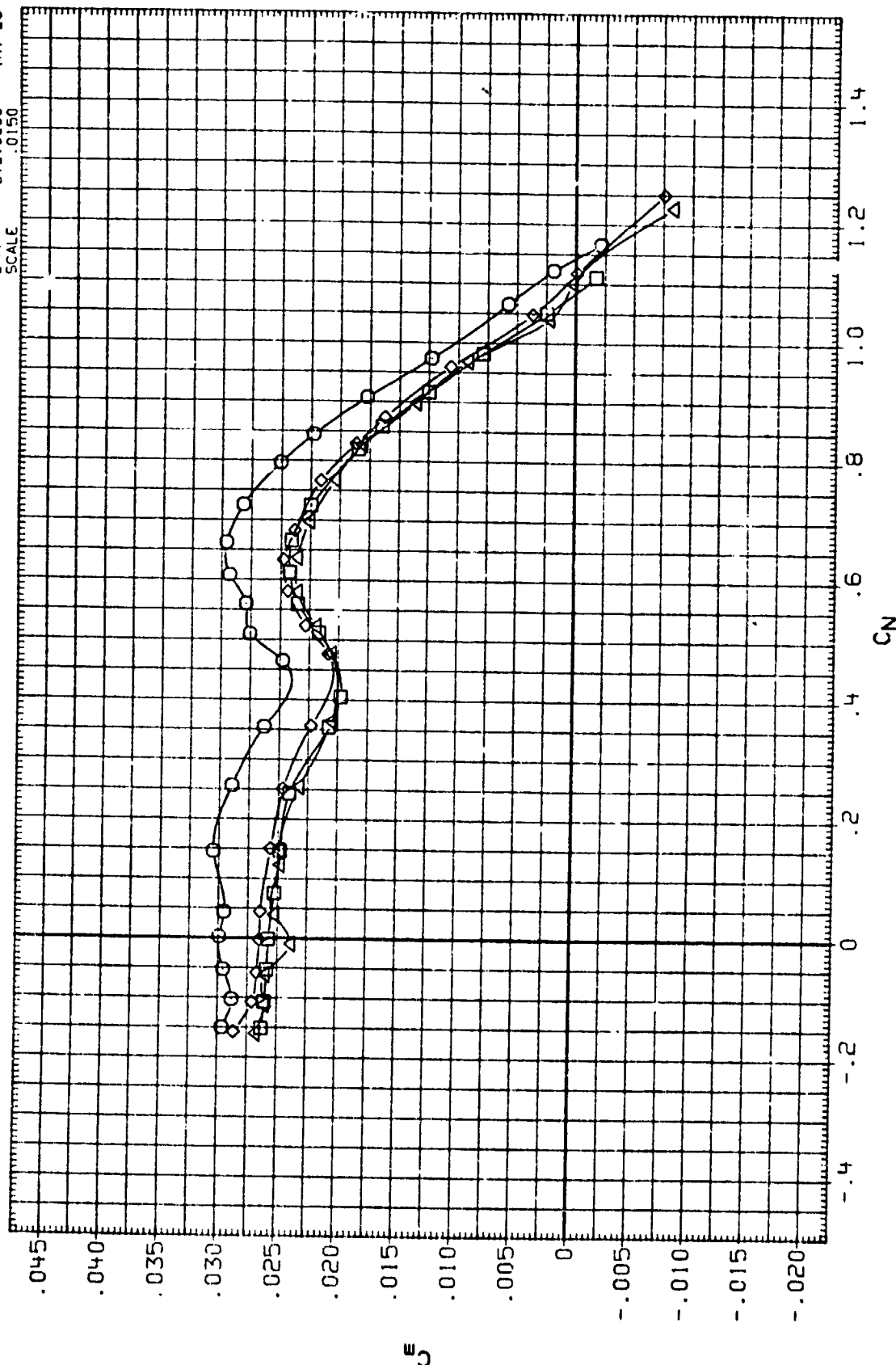


FIGURE 6. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, RN/L= 8.0

(PJT017) LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W

SYMBOL MACH

◇ .151
□ .202
△ .255
▽ .291

PARAMETRIC VALUES

BETA .000
RUDDER .000
RN/L 8.000
AIIRON .000
BDFLAP .000
SFDBRK .25.000
ELEVON .000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8000 INCHES
BREF 936.6800 INCHES
XMRP 1076.7000 IN. XO
YMRP .0000 IN. YO
ZMRP 375.0000 IN. ZO
SCALE .0150

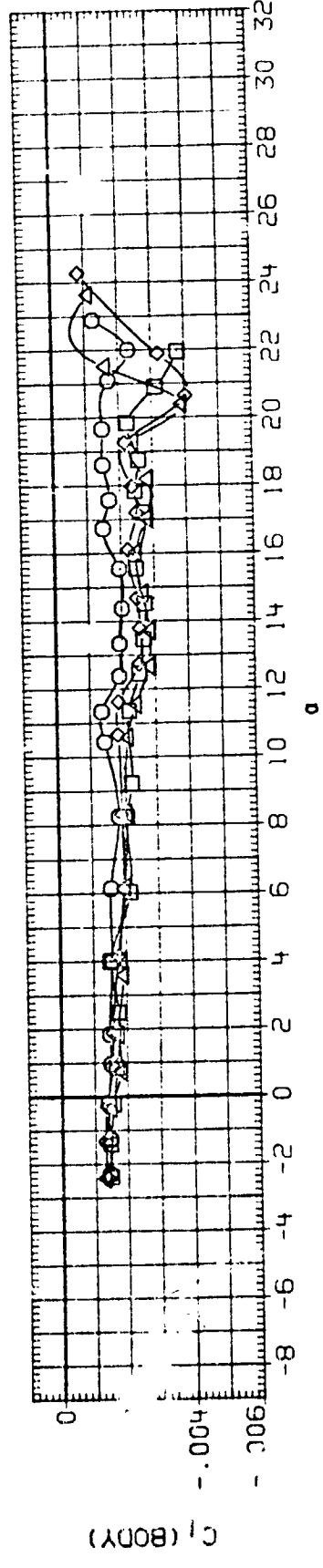
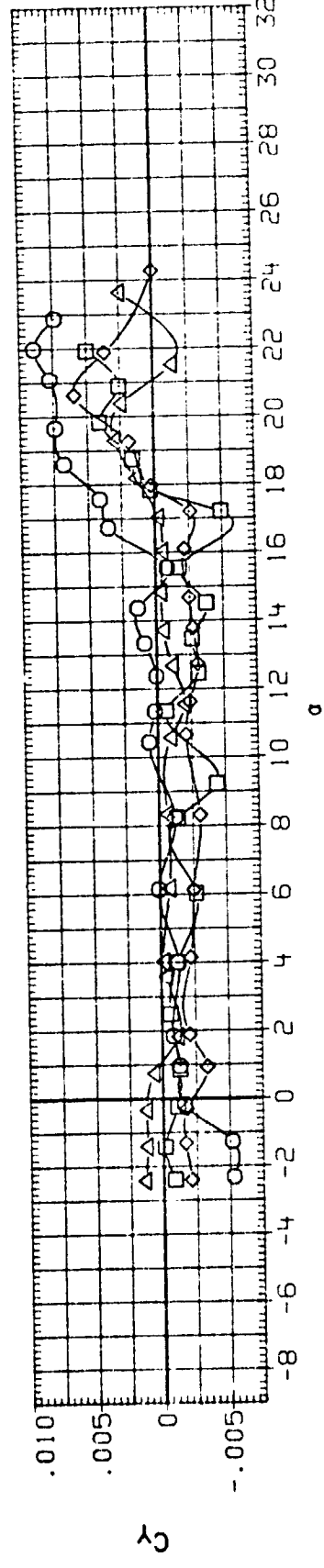
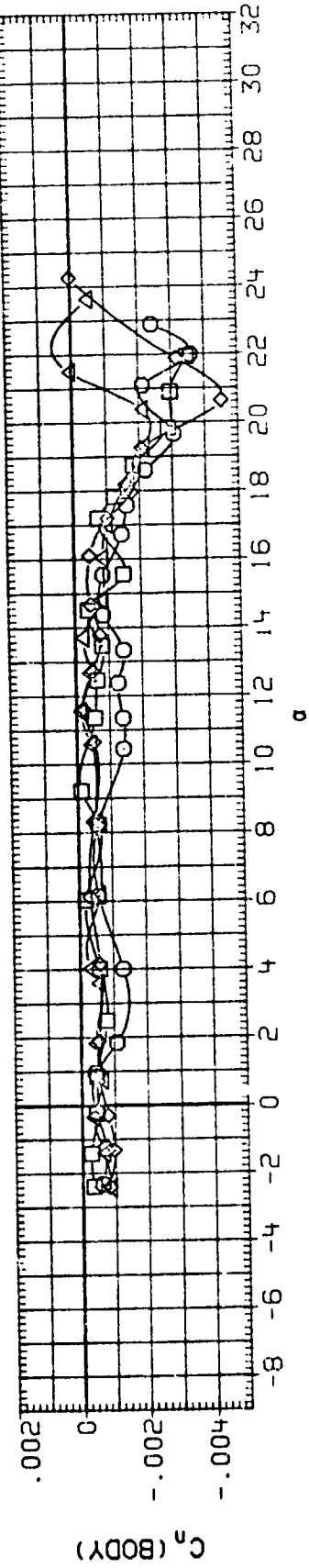


FIGURE 6. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, RN/L= 8.0

(QJT017) LARC LTPT 228(LA61B)B26C9E43F8M16N23R5V8W

SYMBOL MACH
 ○ .151
 □ .202
 △ .255
 ◇ .291

PARAMETRIC VALUES
 BDFLAP .000
 SPOBRK .25.000
 ELEVON .000

BETA
 RUDDER
 RN/L
 AILRON

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE 0.150

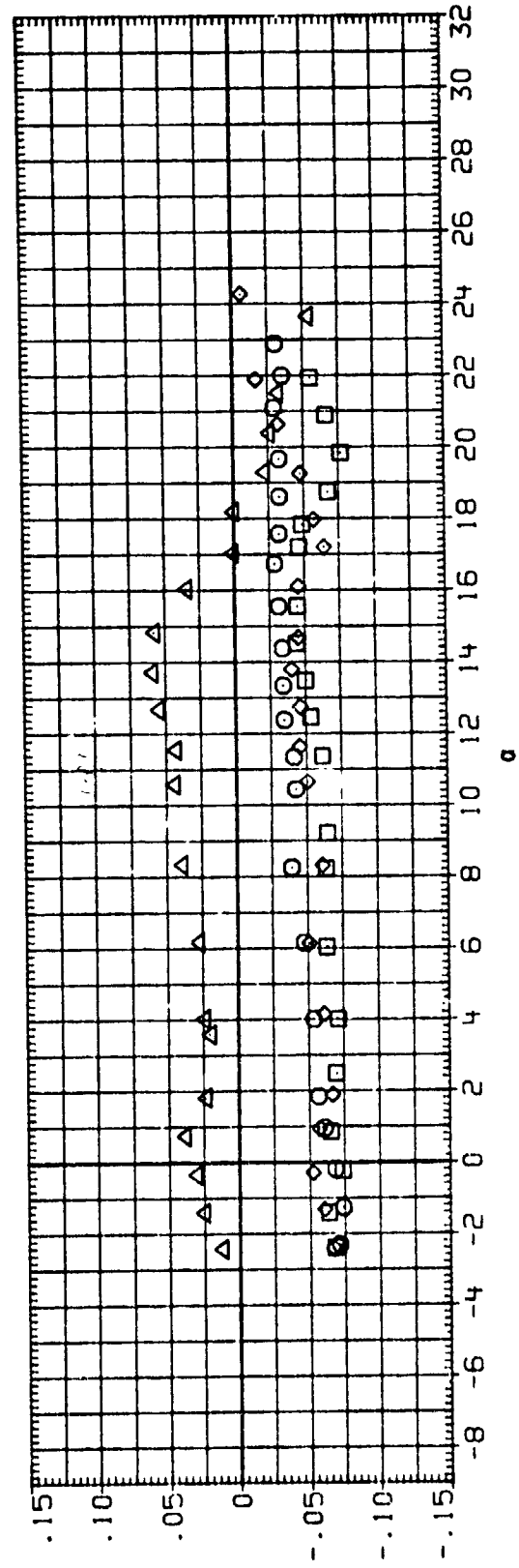
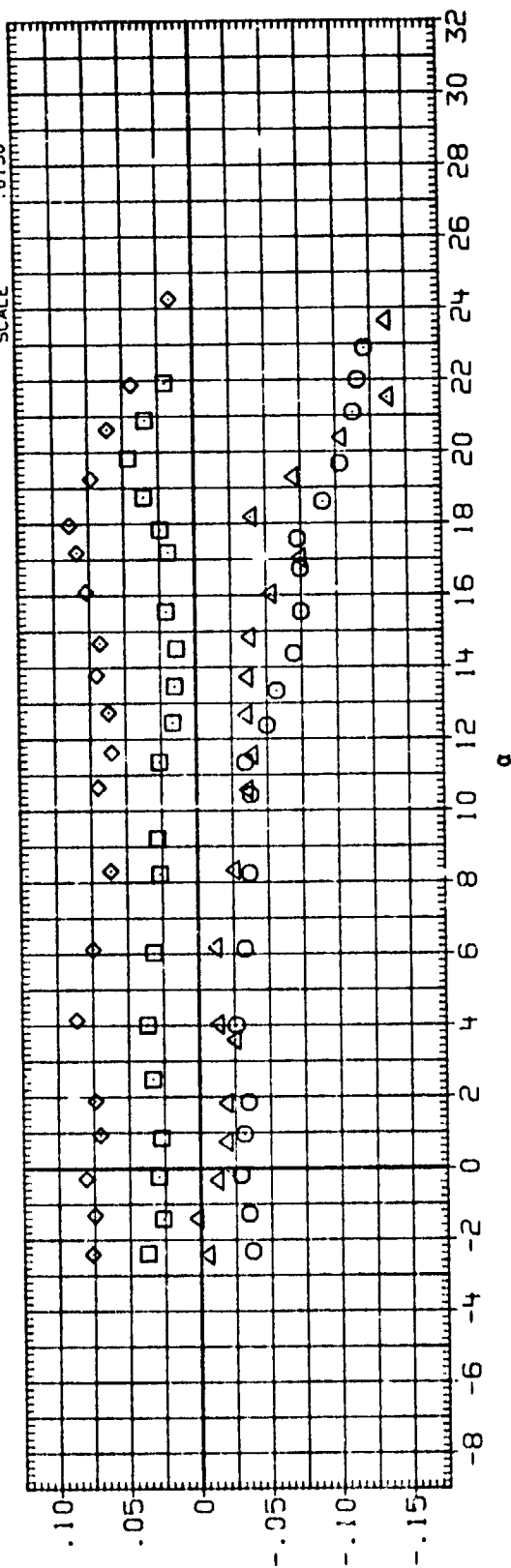


FIGURE 6. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, RN/L = 8.0

(PJT016) LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W

SYMBOL

□ □ ◇

MACH

.150
.199
.241

BETA
RUDDER
R1/L
AILRON

PARAMETRIC VALUES

.000
.000
10.000
.000

BOFLAP
SPOBRK
ELEVON

.000
25.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8000 INCHES
BREF 936.8800 INCHES
XMRP 1076.7000 IN. XO
YMRP .0000 IN. YO
ZMRP 375.0000 IN. ZO

SCALE .0150

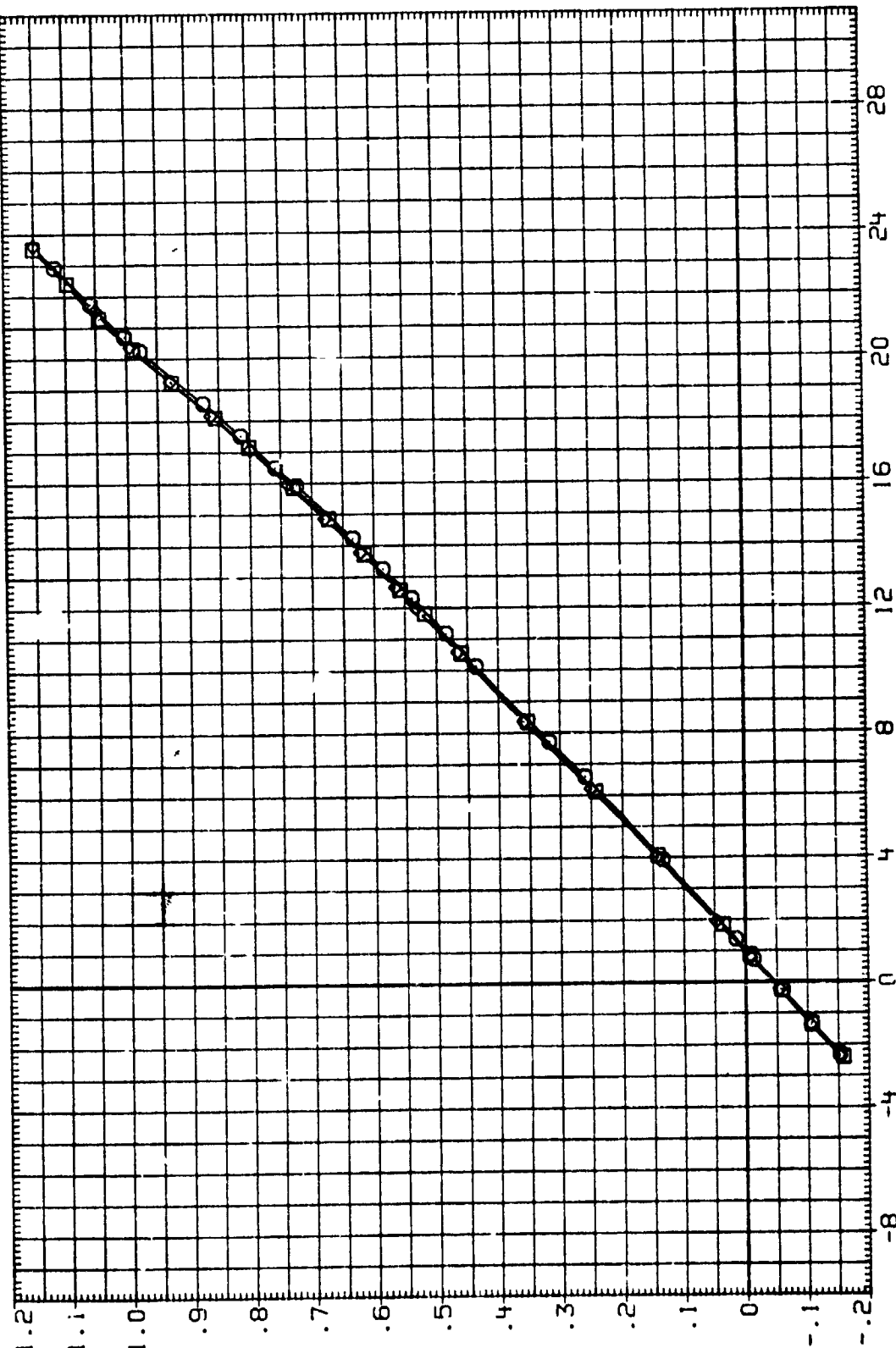


FIGURE 7. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, $RN/L = 10.0$

(PJT016) LARC LIPT 228(LA61B)B26C9E43F8M16N28R5V8W

SYMBOL MACH

□ .150
◇ .199
◇ .241

BETA
RUDDER
RN/L
AILRON

PARAMETRIC VALUES
BDFLAP .000
SPDBRK .000
ELEVON .000

.000
25.000
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8000 INCHES
BREF 936.8800 INCHES
XMRP 1076.7000 IN. XO
YMRP .0000 IN. YO
ZMRP 375.0000 IN. ZO
SCALE .0150

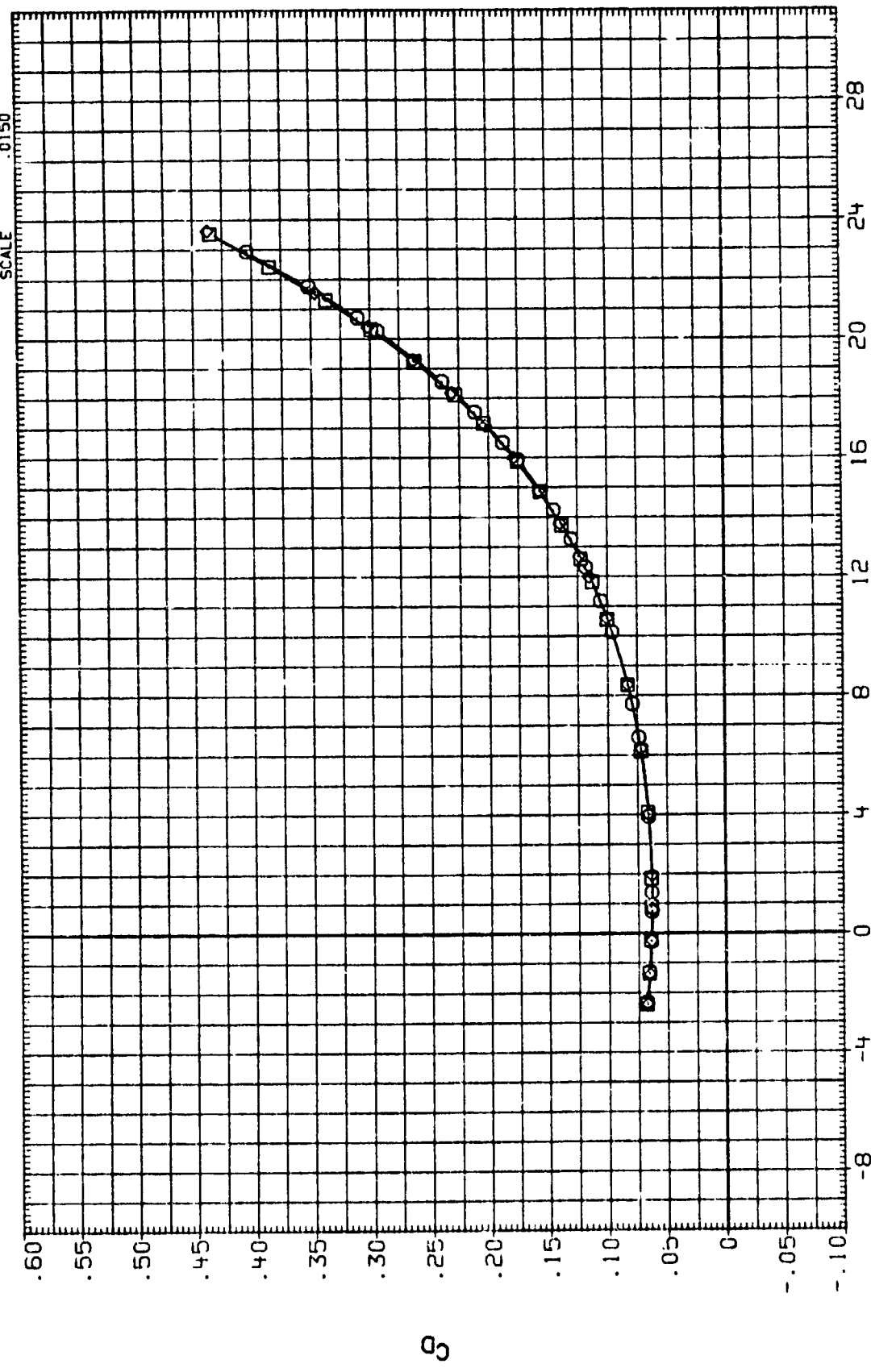


FIGURE 7. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, RN/L = 10.0

(PJT016) LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W

SYMBOL

MACH

150

199

241

BETA

RUDDER

RN/L

AILLON

PARAMETRIC VALUES

BOFLAP

SPDRK

ELEVON

.000

.000

.000

.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.
LREF 474.8000 INCHES
BREF 936.6800 INCHES
XMRP 1076.7000 IN. XO
YMRP .0000 IN. YO
ZMRP 375.0000 IN. ZO

SCALE .0150

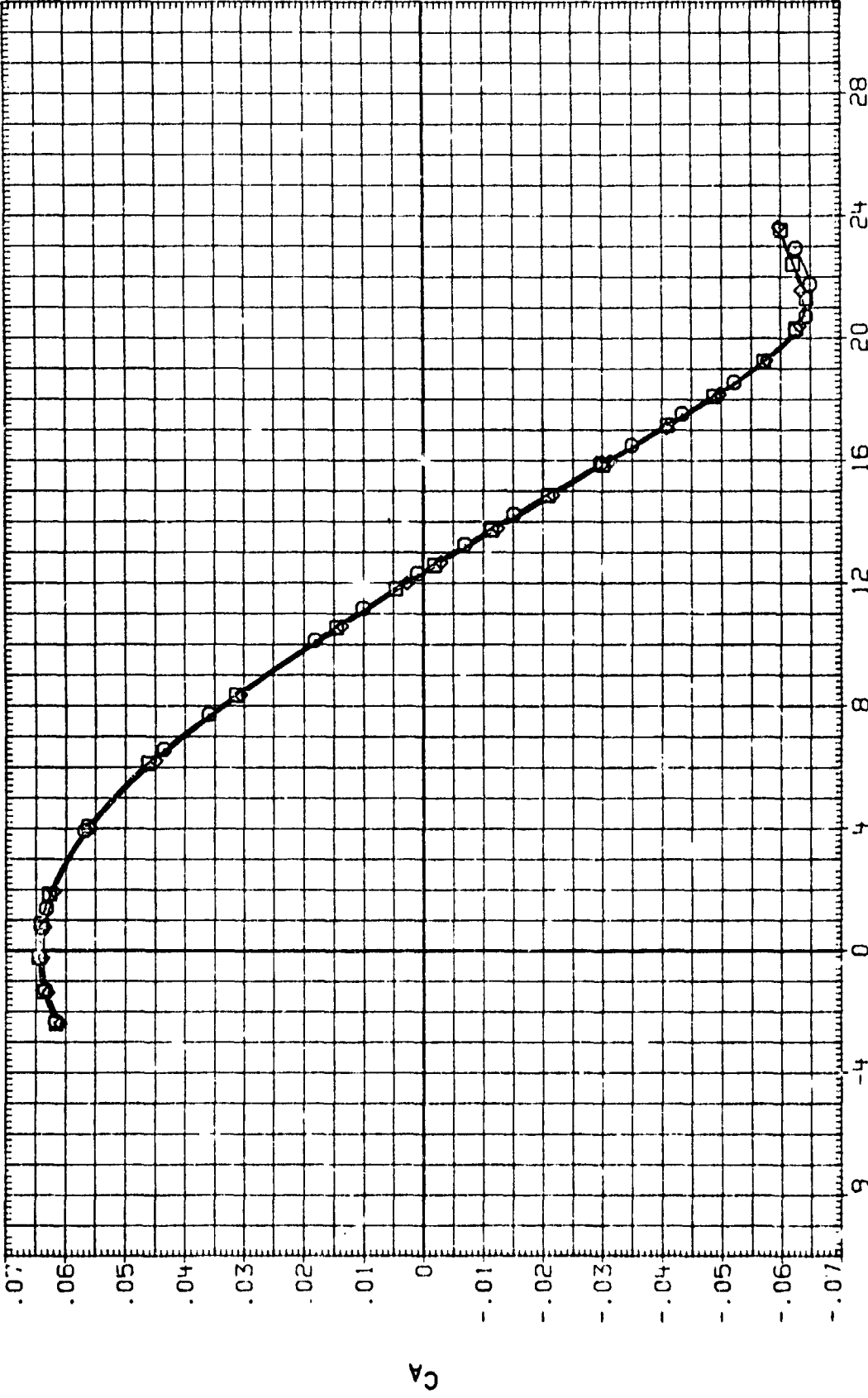


FIGURE 7. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, RN/L = 10.0

(PJT016) LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W

SYMBOL	MACH	BETA	RUDDER	ALLRON	PARAMETRIC VALUES	BDFLAP	BDCLAP
□	.150	.000	.000	.000	.000	.000	.000
□	.199	.000	.000	.000	.000	.000	.000
◇	.241	.000	.000	.000	.000	.000	.000

REFERENCE INFORMATION

SREF	2690.0000	SO.FT.
LREF	474.8000	INCHES
BREF	936.6800	INCHES
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

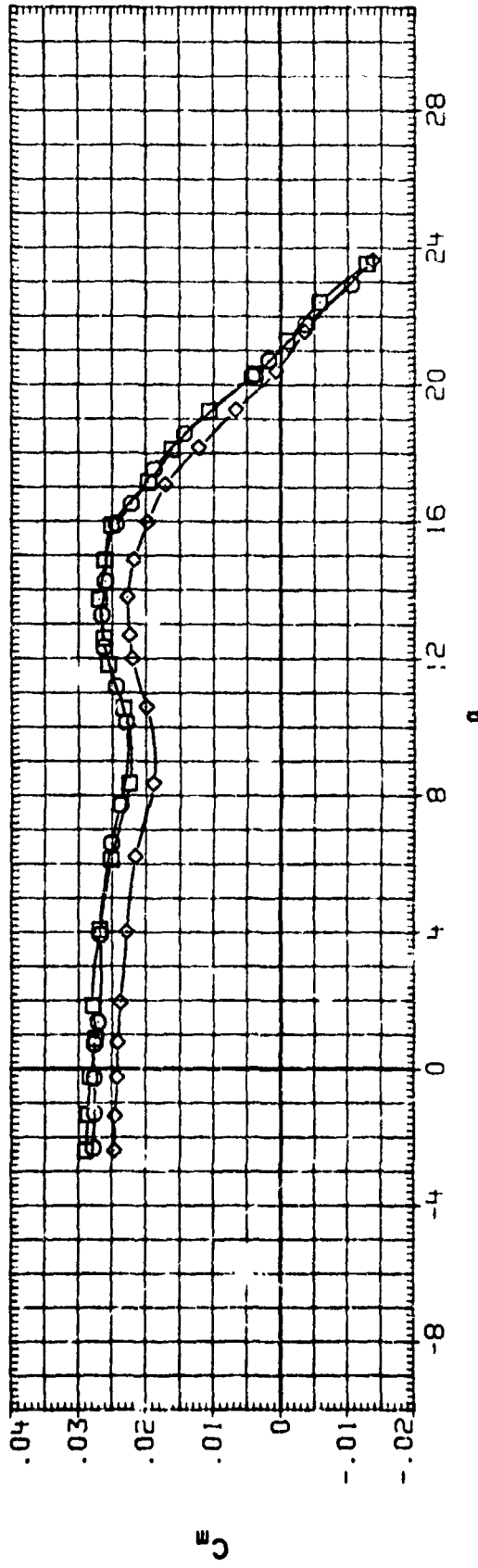
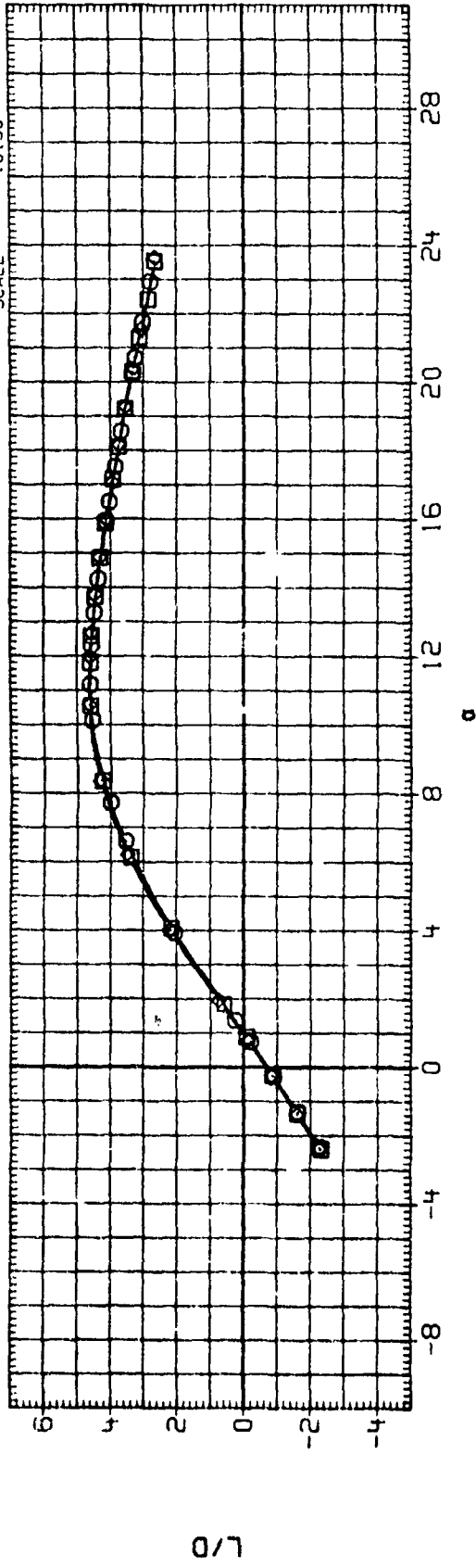


FIGURE 7. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, RN/L = 10.0

(PJT016) LARC LTPT 229(LA61B)B26C9E43F8M16N28R5VBW

SYMBOL MACH
 □ .150
 ○ .199
 ◇ .241

PARAMETRIC VALUES
 BETA .000
 RUDDER .000
 RN/L 10.000
 AILRON .000
 BOFLAP .000
 SPOBRK .000
 ELEVON .000

REFERENCE INFORMATION
 SREF 2630.0000 SQ. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

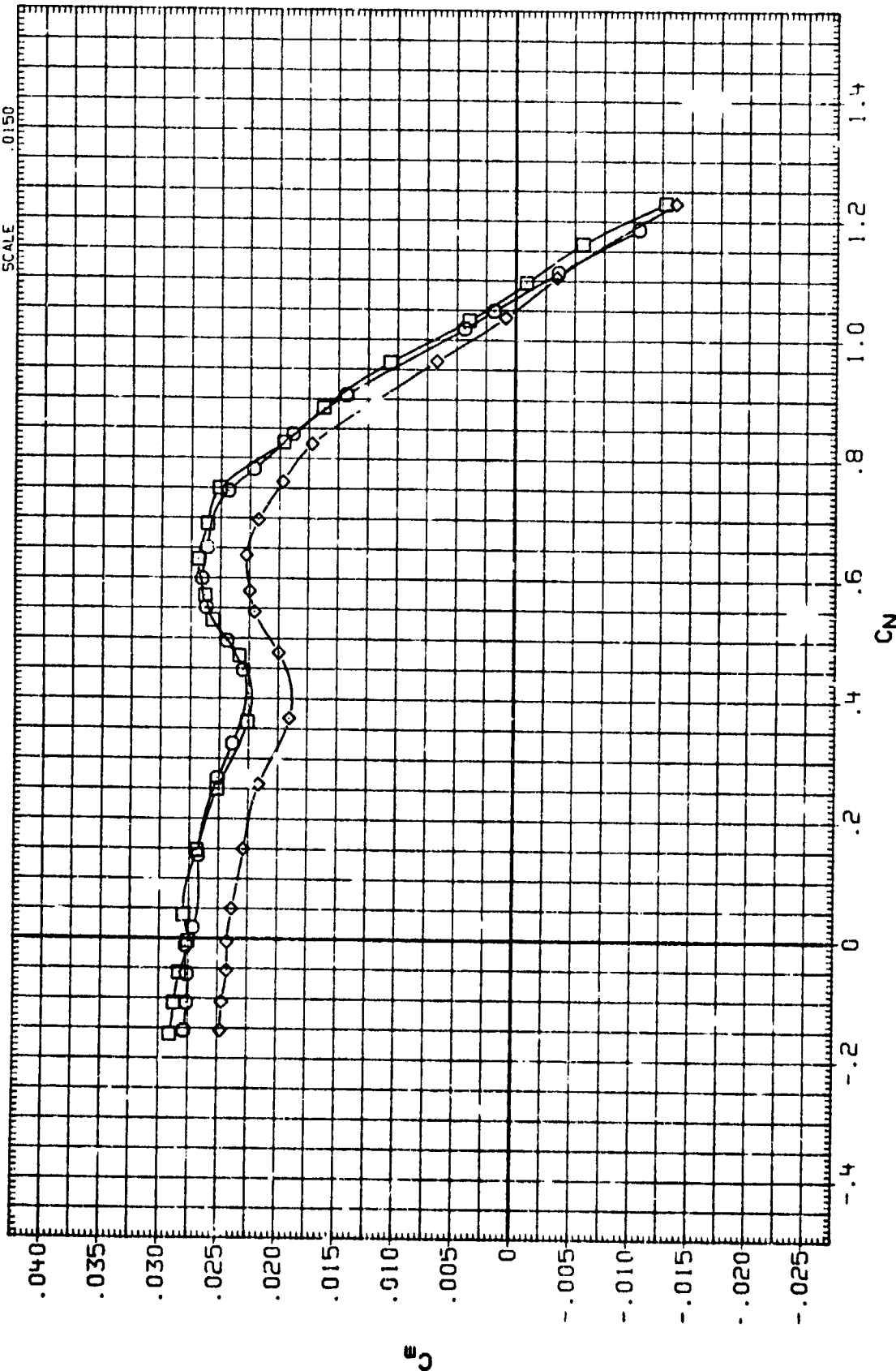


FIGURE 7. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, RN/L= 10.0

(PJT016) LARC LTPT 228(LAG1B)R26C9E43F8M16N28R5V8W

SYMBOL α MACH
 \diamond .150
 \square .199
 \circ .241

PARAMETRIC VALUES
 BETA .000
 RUDDER .000
 RN/L 10.000
 ATLRON .000

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 474.8000 INCHES
 BREF 935.6800 INCHES
 YMRP 1076.7000 IN. XC
 ZMRP 375.0000 IN. YO
 SCALE .0150

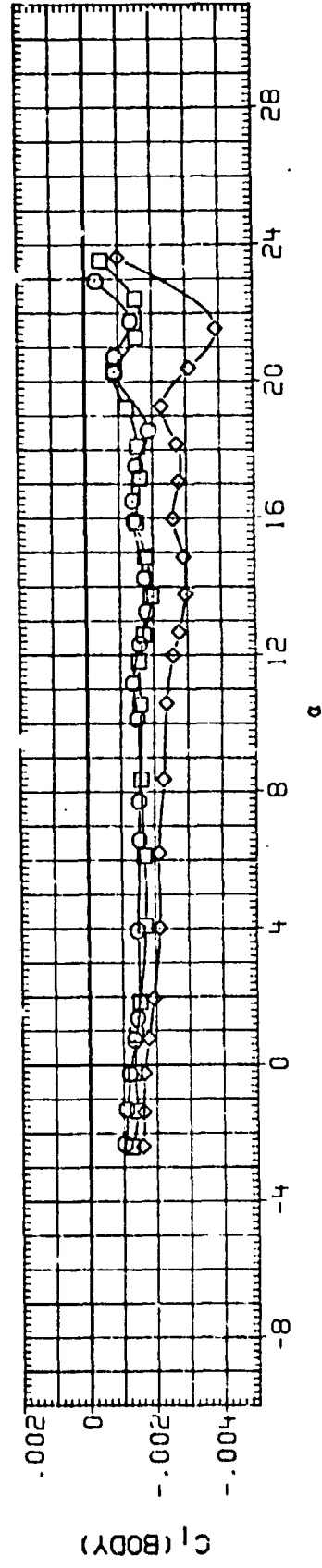
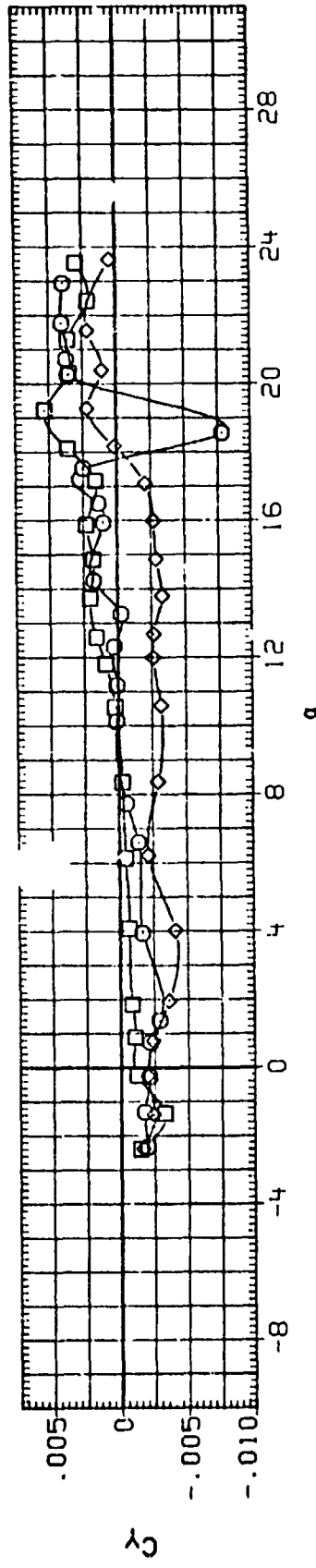
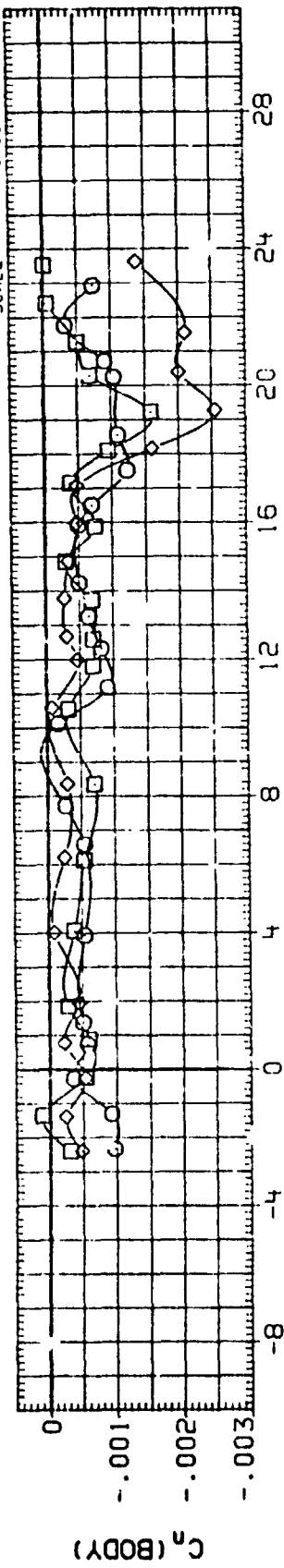


FIGURE 7. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, RN/L = 10.0

(QJT016) LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W

SYMBOL MACH

□ .150
◇ .199
◇ .241

BETA
RUDDER
RN/L
AILRON

.000
.000
10.000
.000

BDFLAP
SPDBPK
ELEVON

.000
25.000
.000

REFERENCE INFORMATION
SREF 2690.0000 SQ.FT.
LREF 474.8000 INCHES
BREF 936.5800 INCHES
XMRP 1076.7000 IN. XO
YMRP .0000 IN. YO
ZMRP 375.0000 IN. ZO
SCALE .0150

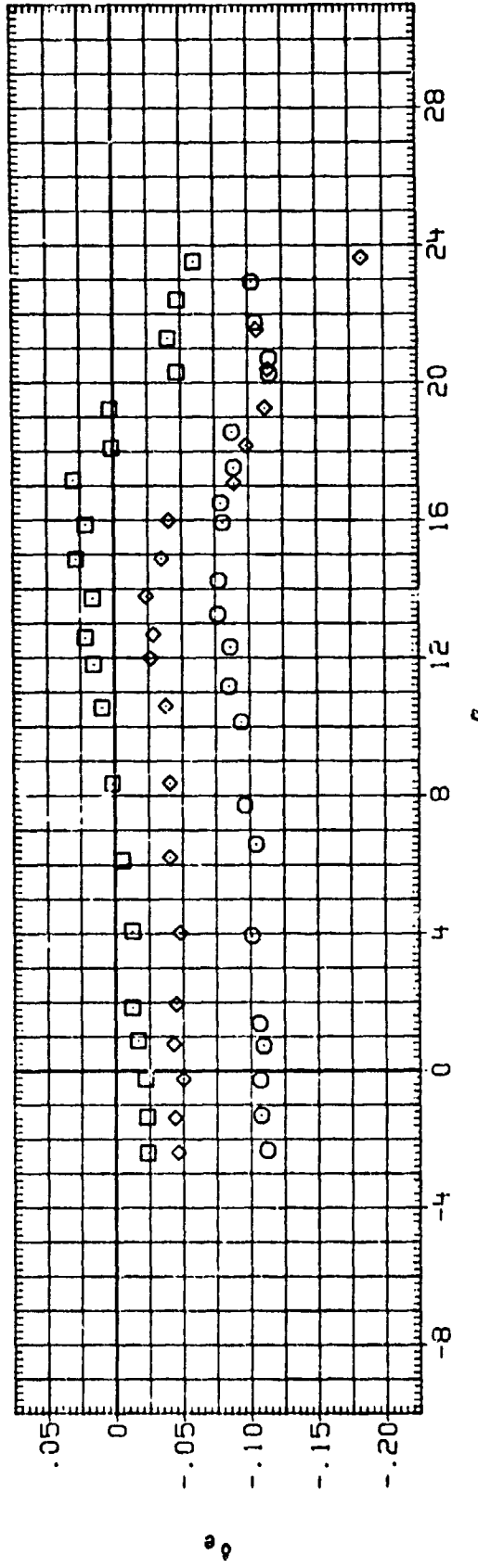
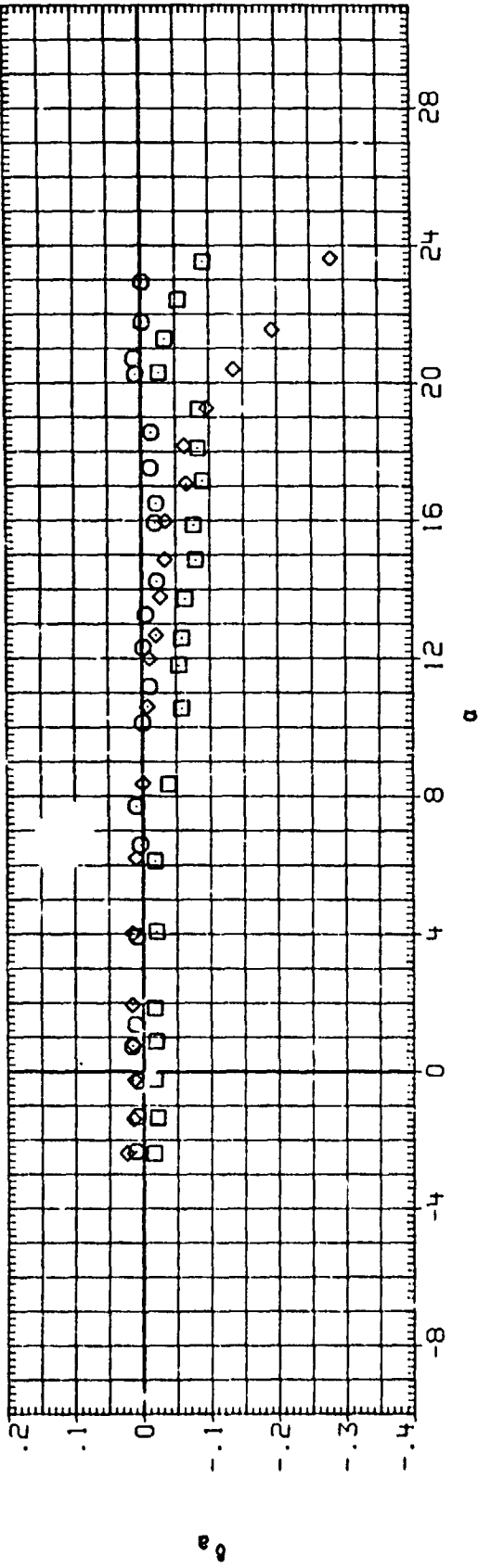


FIGURE 7. EFFECT OF MACH NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, RN/L= 10.0

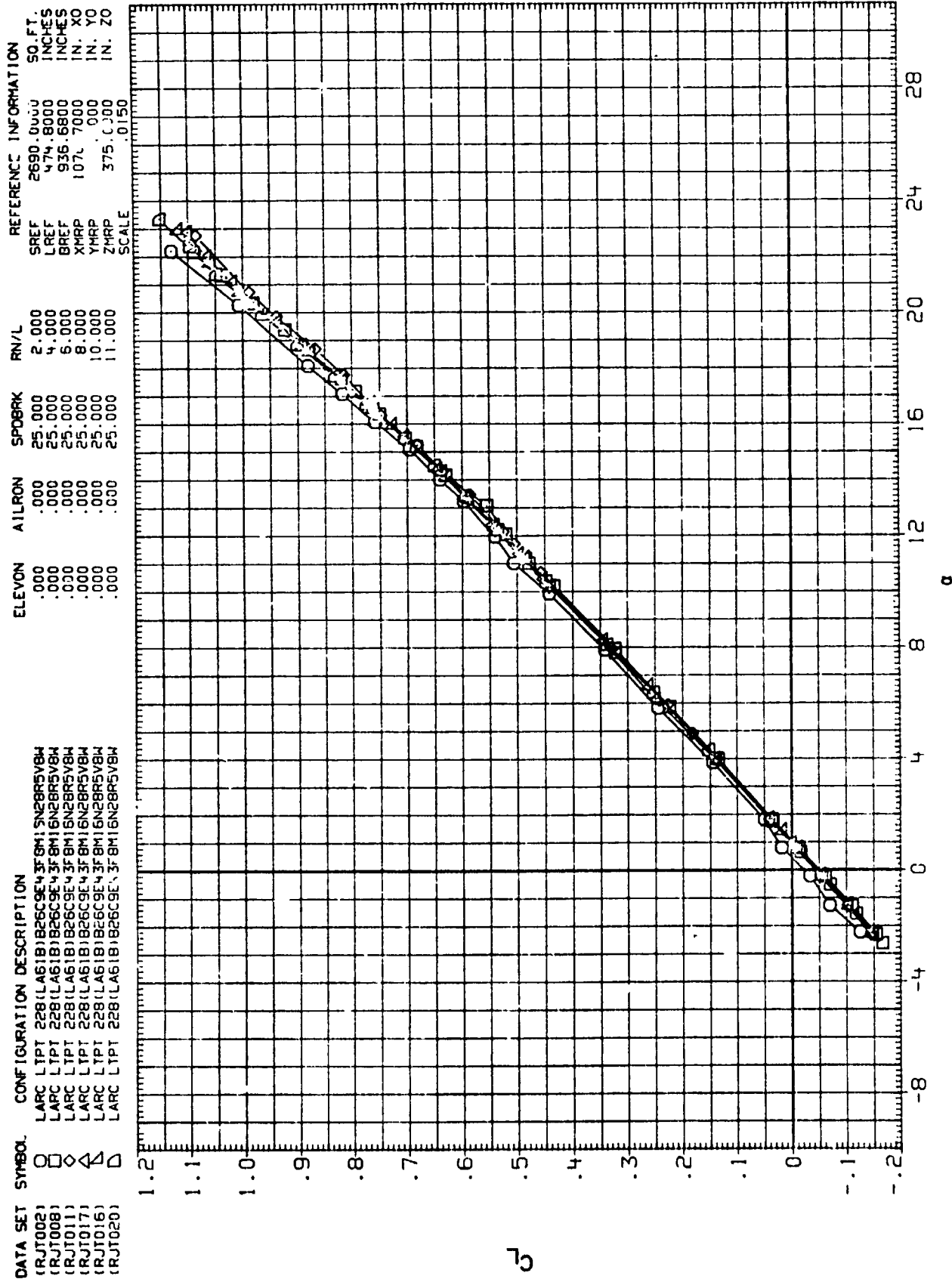


FIGURE 8. EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS.
CONTROL SURFACES AT 0 DEGREES, MACH= 0.15

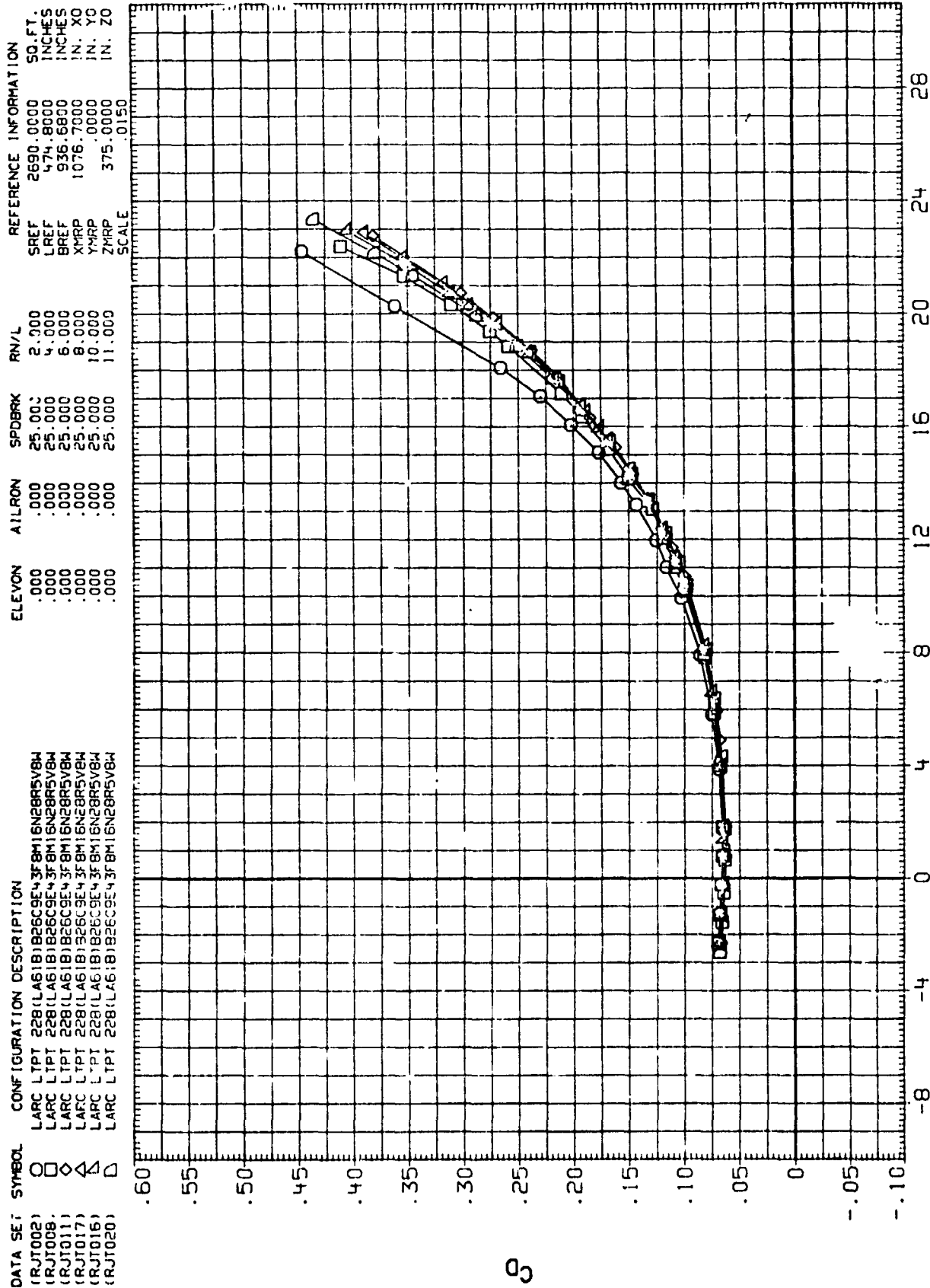


FIGURE 8. EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.15

(A) MACH = .15

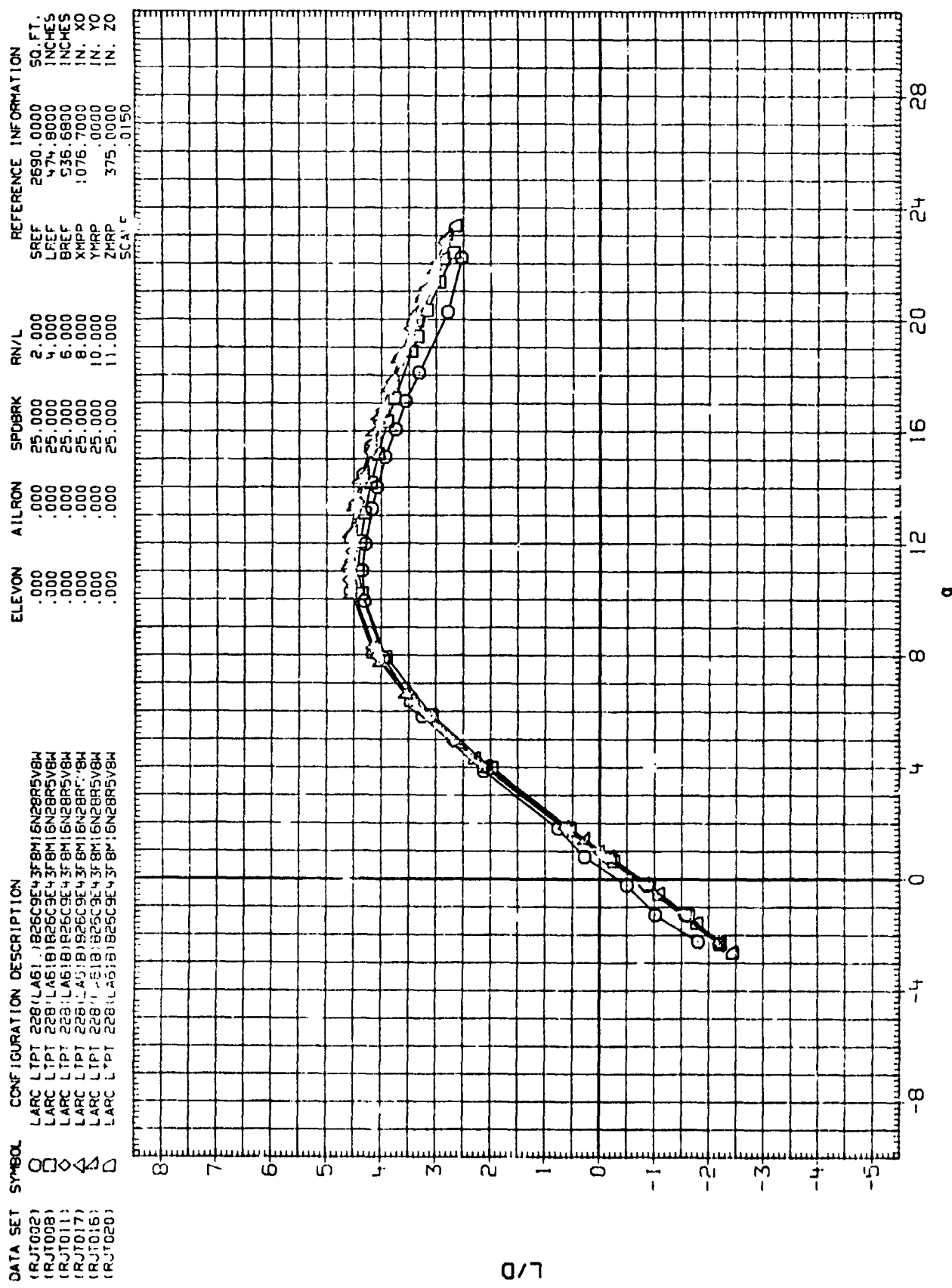


FIGURE 8. EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.15

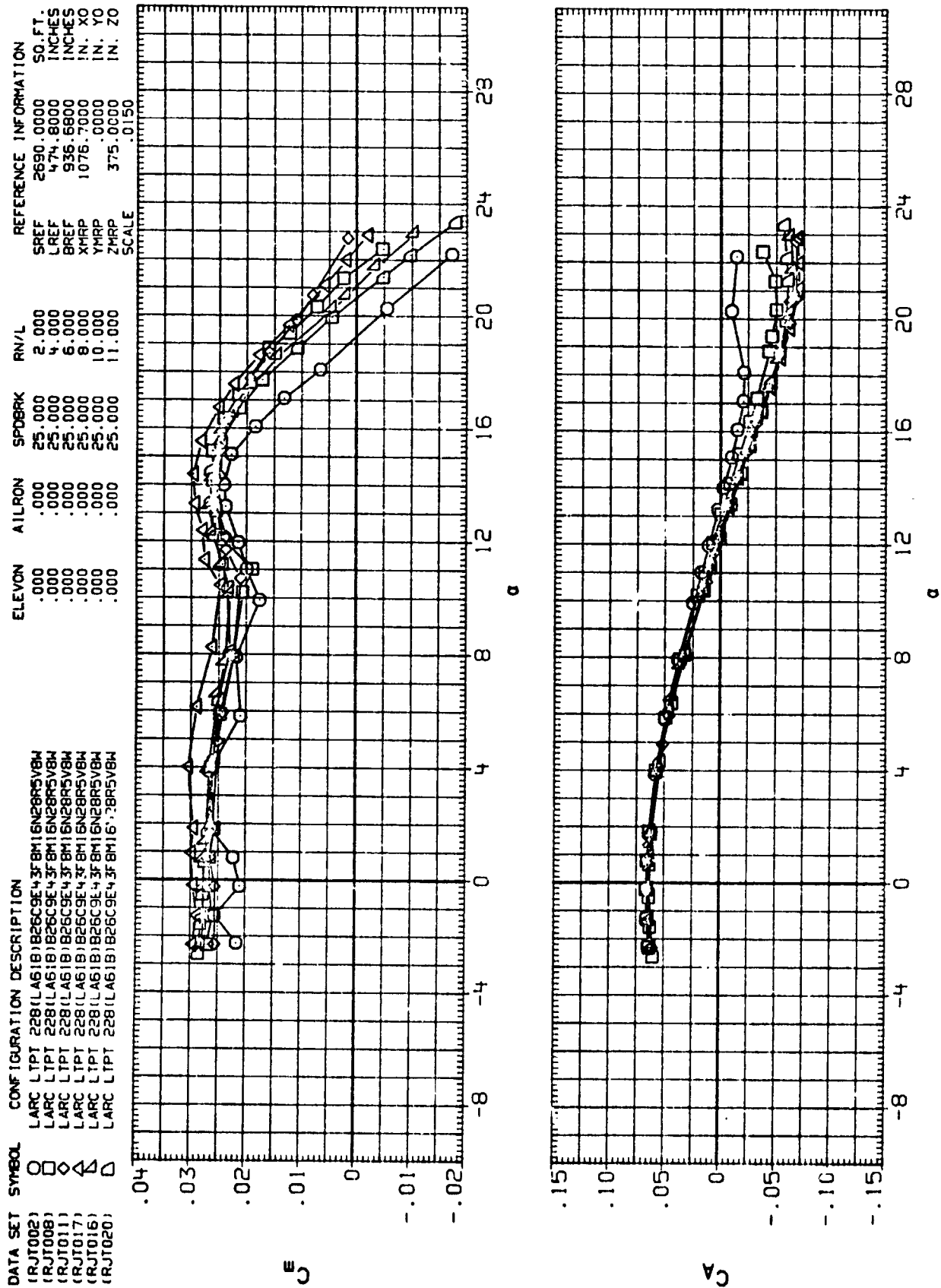


FIGURE 8. EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.15

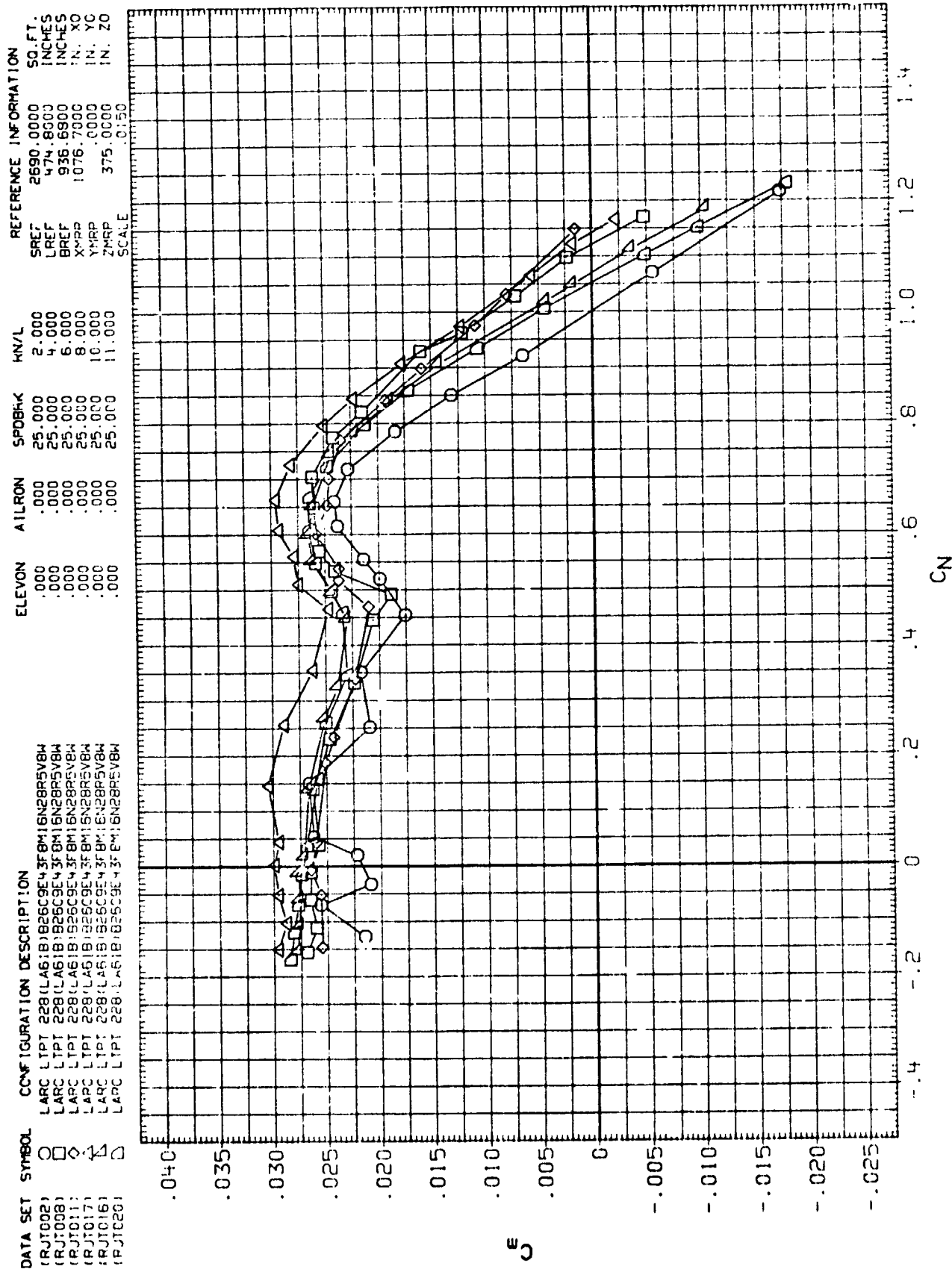


FIGURE 8. EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.15

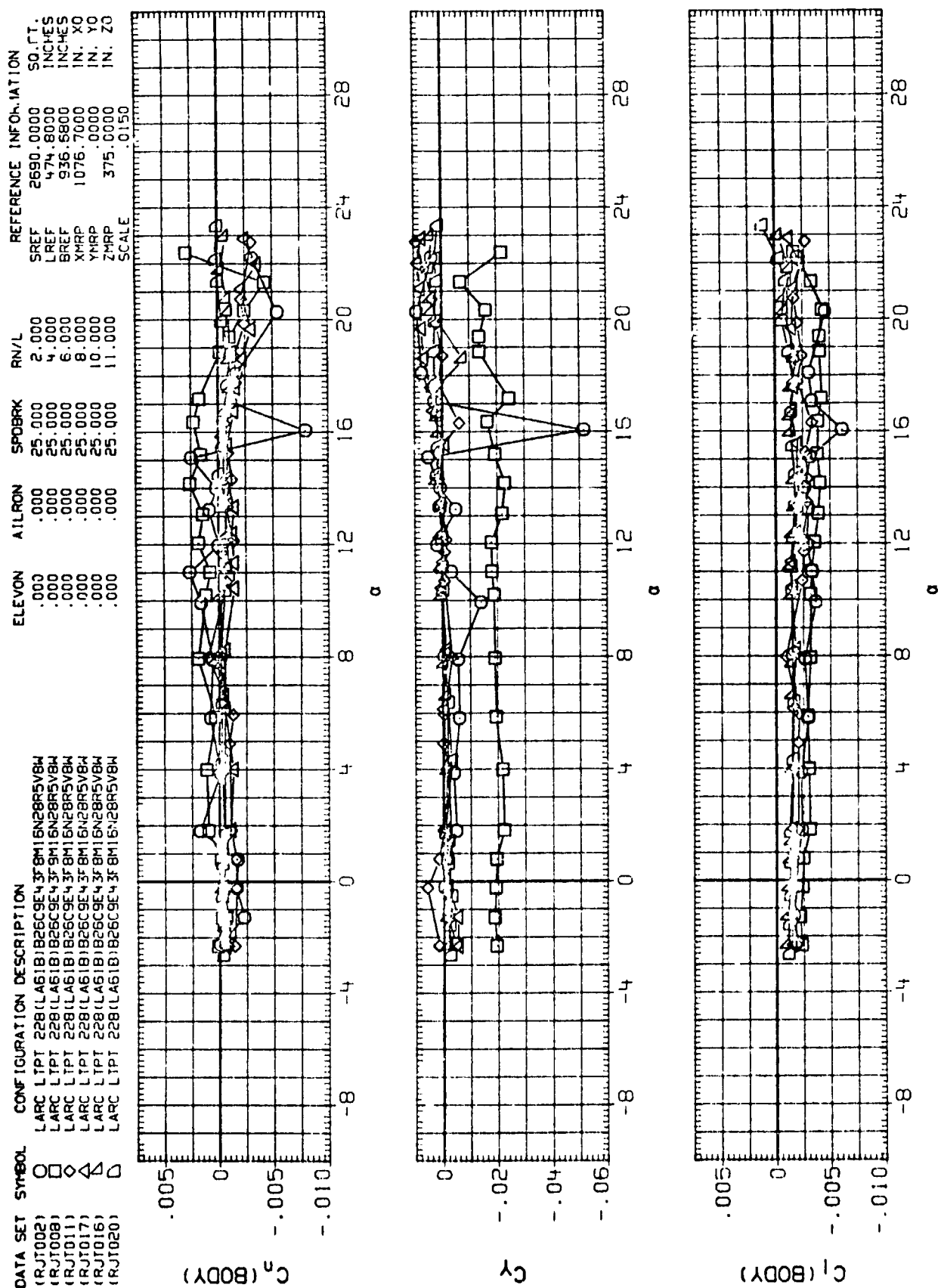


FIGURE 8. EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.15

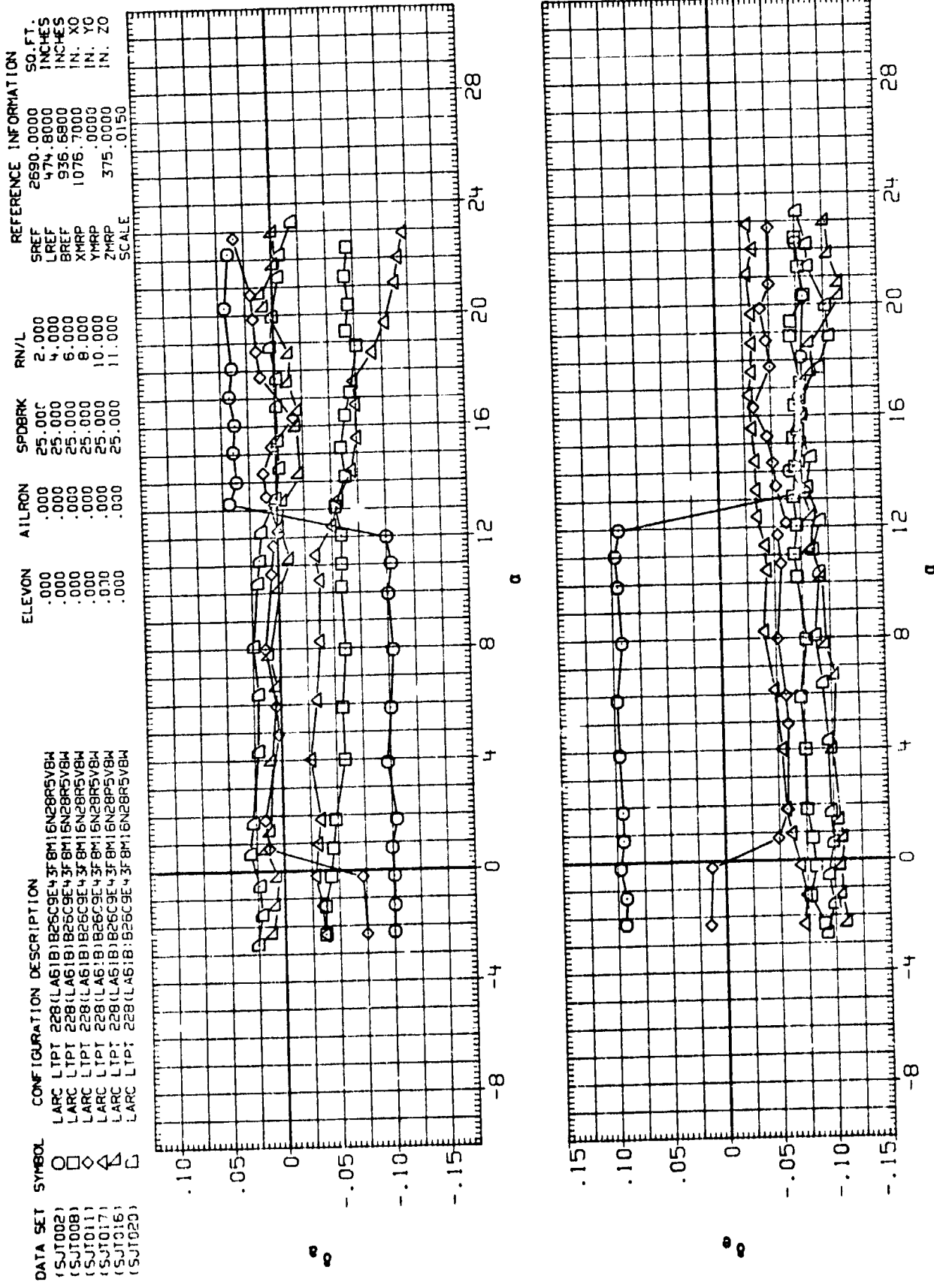


FIGURE 8. EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS.
 CONTROL SURFACES AT 0 DEGREES, MACH= 0.15
 (A) MACH = .15
 PAGE 35

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	ATLIRON	SPOBRK	RN/L	REFERENCE INFORMATION
(RJT008)	□	LARC LPT 228(LA618)B26C9E43F8M16A28R5VBW	.000	.000	25.000	4.000	SREF 2690.0000 SQ.FT.
(RJT011)	◇	LARC LPT 228(LA618)B26C9E43F8M16A28R5VBW	.000	.000	25.000	6.000	LREF 474.8000 INCHES
(RJT015)	△	LARC LPT 228(LA618)B26C9E43F8M16A28R5VBW	.000	.000	25.000	8.000	BREF 936.6800 INCHES
(RJT018)	△	LARC LPT 228(LA618)B26C9E43F8M16A28R5VBW	.000	.000	25.000	10.000	XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

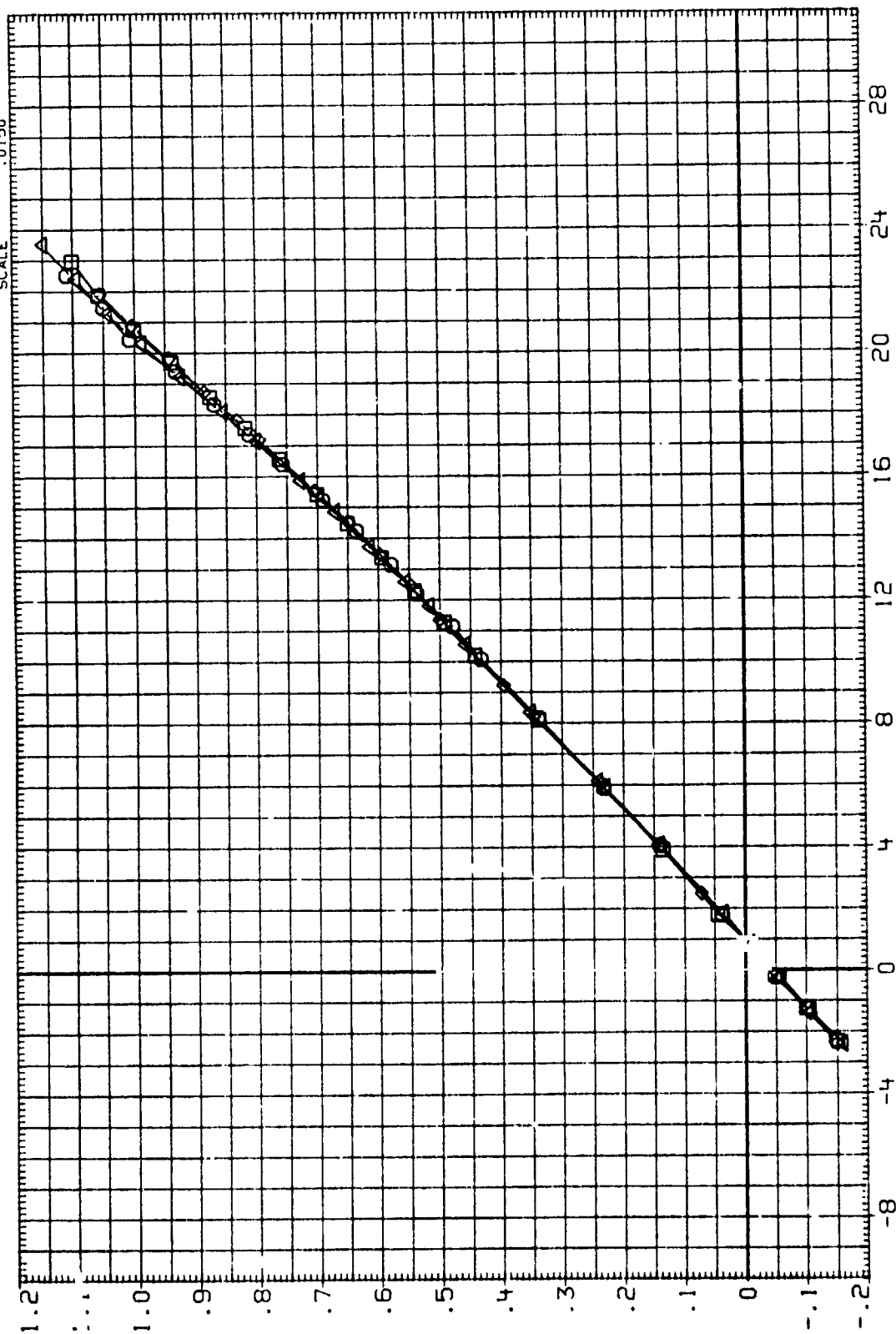


FIGURE 9(A). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	SPDBRK	RN/L	REFERENCE INFORMATION
(RJ0008)	○	LARC LIPT 228(LA61B)B26C9E43F8M16N28R5V8H	.000	.000	25.000	4.000	SREF 2690.0000 SQ. FT.
(RJ0011)	□	LARC LIPT 228(LA51B)B26C9E43F8M16N28R5V8H	.000	.000	25.000	6.000	LREF 474.8000 INCHES
(RJ0015)	◇	LARC LIPT 228(LA61B)B26C9E43F8M16N28R5V8H	.000	.000	25.000	8.000	BREF 336.6800 INCHES
(RJ0018)	△	LARC LIPT 228(LA61B)B26C9E43F8M16N28R5V8H	.000	.000	25.000	10.000	XMRP 1076.7000 IN. XC
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE 0.150

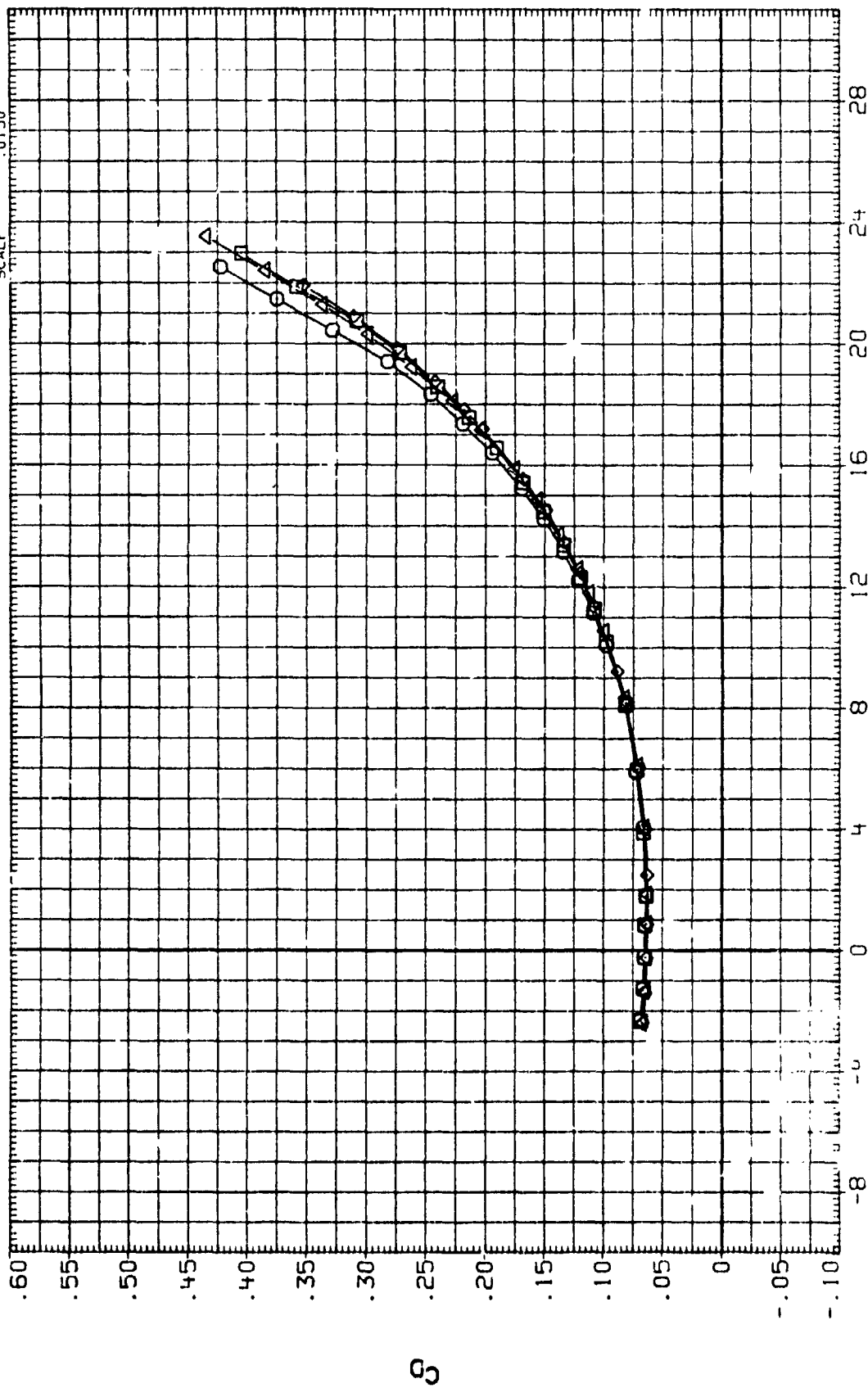


FIGURE 90 EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, (AIMACH = 20) (UNITARY) SURFACES AT 0 DEGREES, MACH= 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	SPDRK	RN/L	REFERENCE INFORMATION
(RJT008)	□	LARC LTPT 228(LA61B)B26C9E4 3F 8M16N28R5V8H	.000	.000	25.000	4.000	SREF 2690.0000 SQ. FT.
(RJT011)	□	LARC LTPT 228(LA61B)B26C9E4 3F 8M16N28R5V8H	.000	.000	25.000	6.000	LREF 474.8000 INCHES
(RJT015)	◇	LARC LTPT 228(LA61B)B26C9E4 3F 8M16N28R5V8H	.000	.000	25.000	8.000	BREF 936.6800 INCHES
(RJT018)	△	LARC LTPT 228(LA61B)B26C9E4 3F 8M16N28R5V8H	.000	.000	25.000	10.000	XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

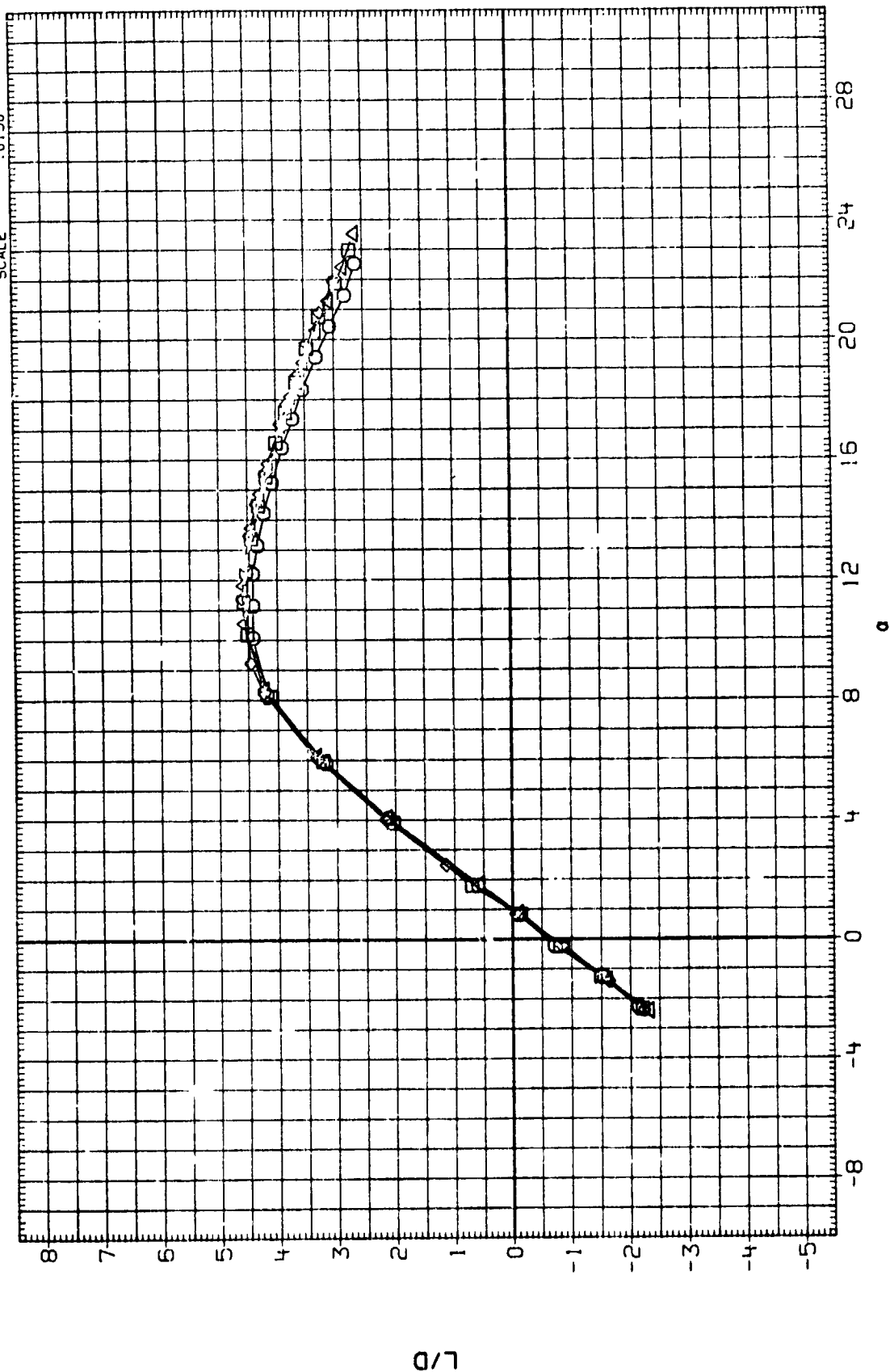


FIGURE 9(A). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	SPOILER	RN/L	REFERENCE INFORMATION
(RJTO08)	○	LARC LTPT 228(LAS18)B26C9E43FBH16N2GRSV8M	.000	.000	25.000	4.000	SREF 2690.000C SQ.FT.
(RJTO11)	□	LARC LTPT 228(LAS18)E3C9E43FBH16N2GRSV8M	.000	.000	25.000	5.000	LREF 474.8000 INCHES
(RJTO15)	◇	LARC LTPT 228(LAS18)B26C9E43FBH16N2GRSV8M	.000	.000	25.000	8.000	BREF 936.6800 INCHES
(RJTO18)	△	LARC LTPT 228(LAS18)B26C9E43FBH16N2GRSV8M	.000	.000	25.000	10.000	XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

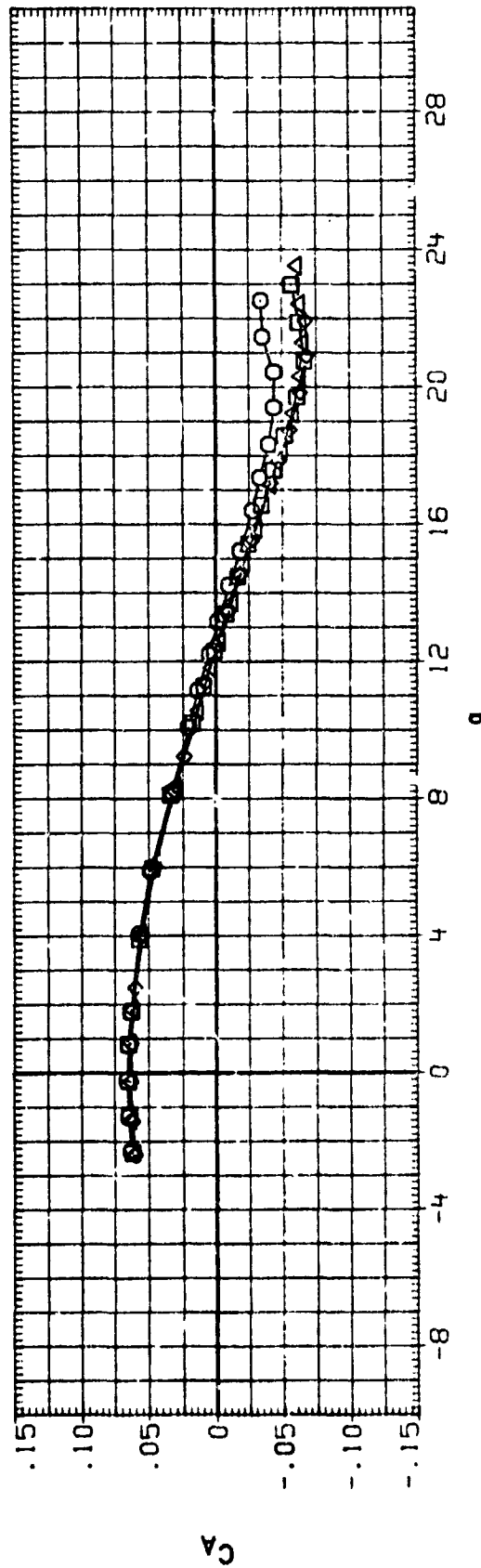
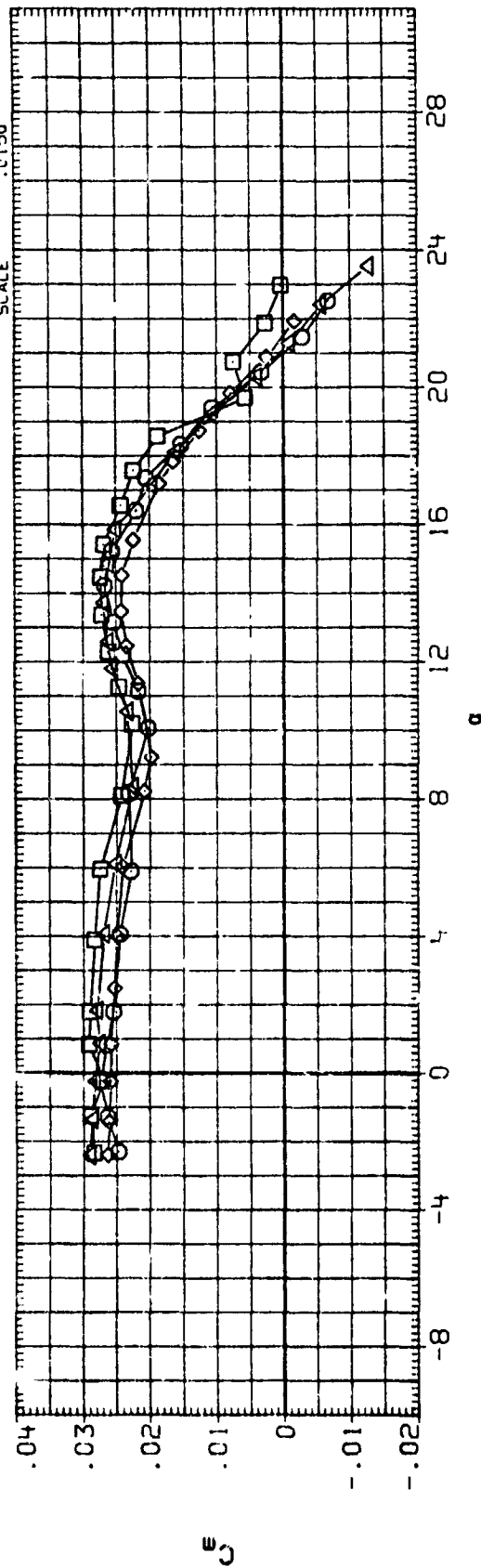


FIGURE 9(A). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	SPOBRK	RN/L	REFERENCE INFORMATION
(RJT008)	□	LARC LTPT 228(LA618)B26C9E4 3' 8" 16N28R5V8H	.000	.000	25.000	4.000	SREF 2690.0000 SQ.FT.
(RJT011)	◇	LARC LTPT 228(LA618)B26C9E4 3' 8" 16N28R5V8H	.000	.000	25.000	6.000	LREF 474.8000 INCHES
(RJT015)	△	LARC LTPT 228(LA618)B26C9E4 3' 8" 16N28R5V8H	.000	.000	25.000	8.000	BREF 936.6800 INCHES
(RJT018)	△	LARC LTPT 228(LA618)B26C9E4 3' 8" 16N28R5V8H	.000	.000	25.000	10.000	XMRP 1076.7000 IN. X0
							YMRP .0000 IN. YC
							ZMRP 375.0000 IN. Z0
							SCALE .0150

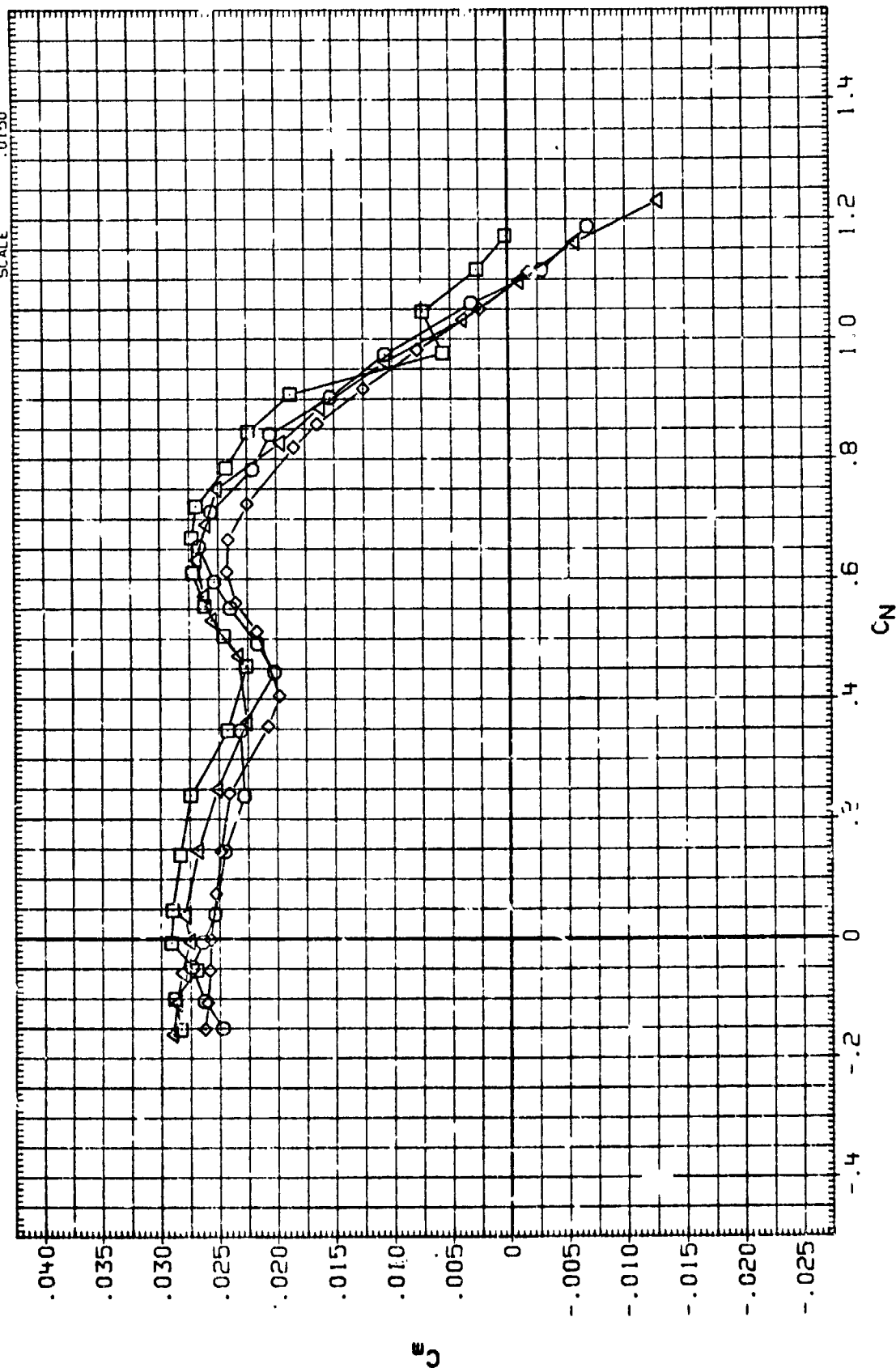


FIGURE 9(A). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS.
CONTROL SURFACES AT 0 DEGREES, MACH= 0.20

(A) MACH = .20

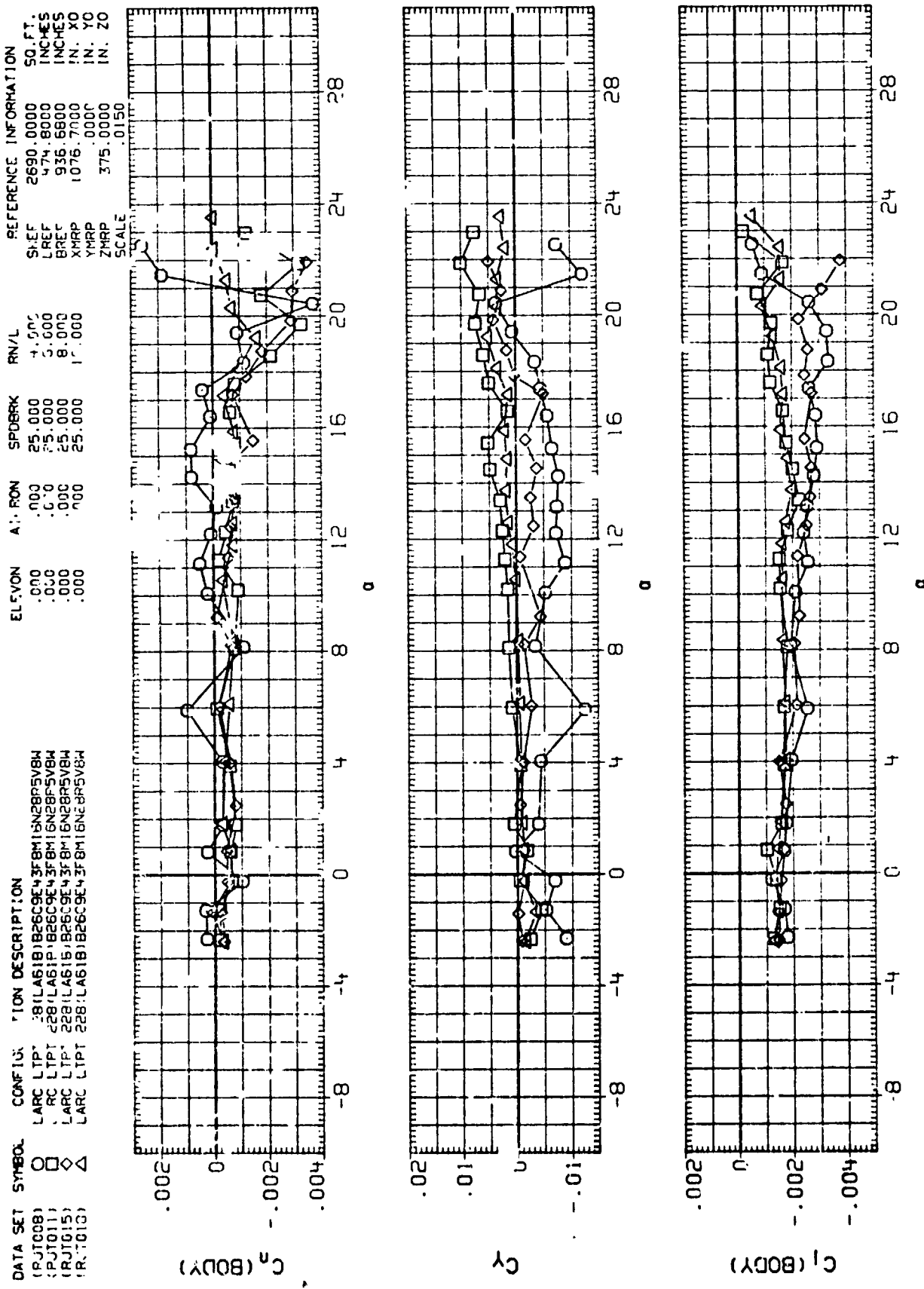


FIGURE 9(A). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.20

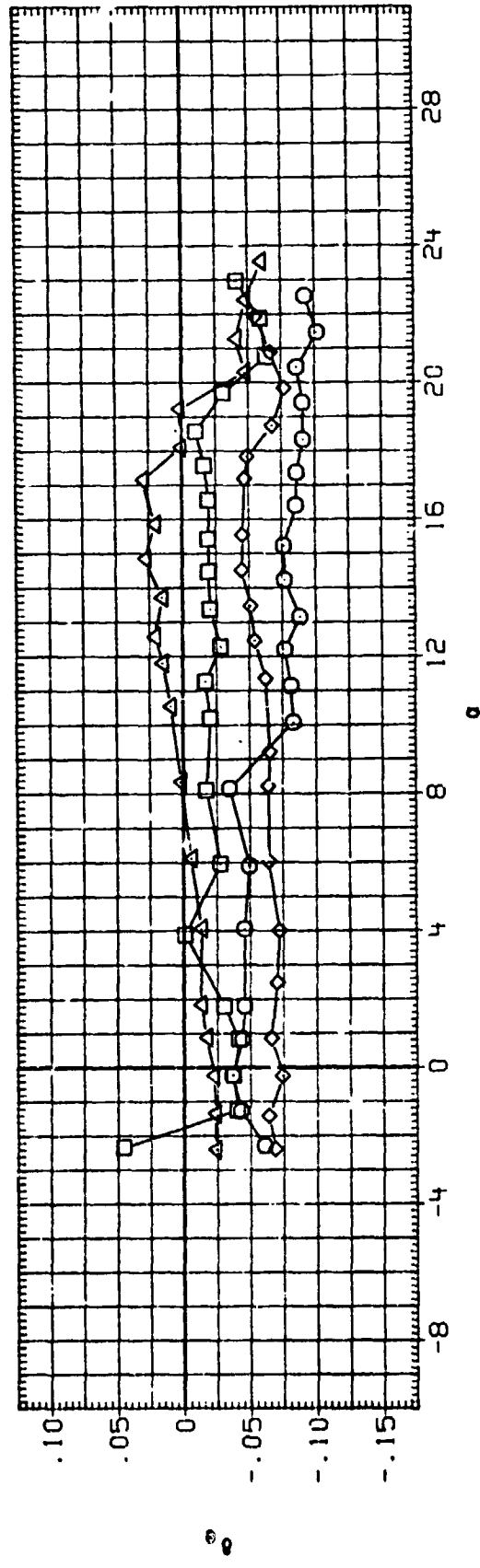
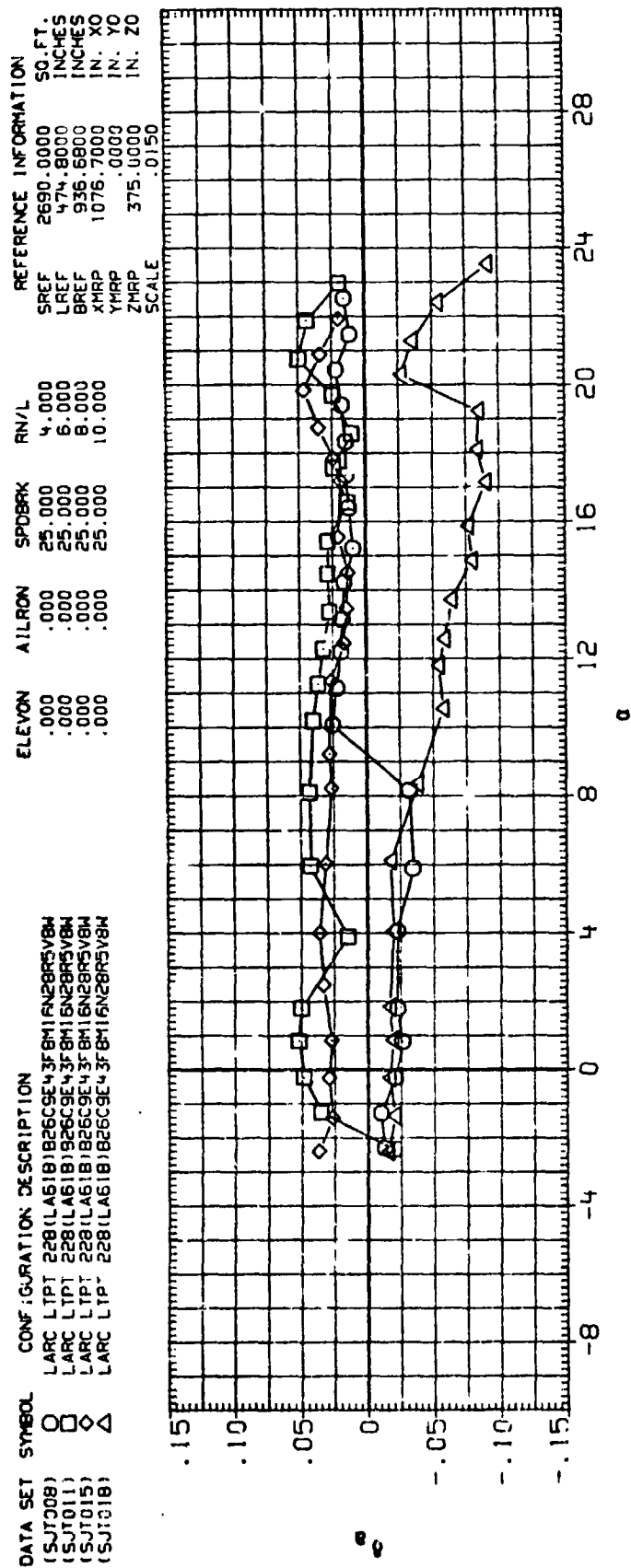


FIGURE 9(A). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.20

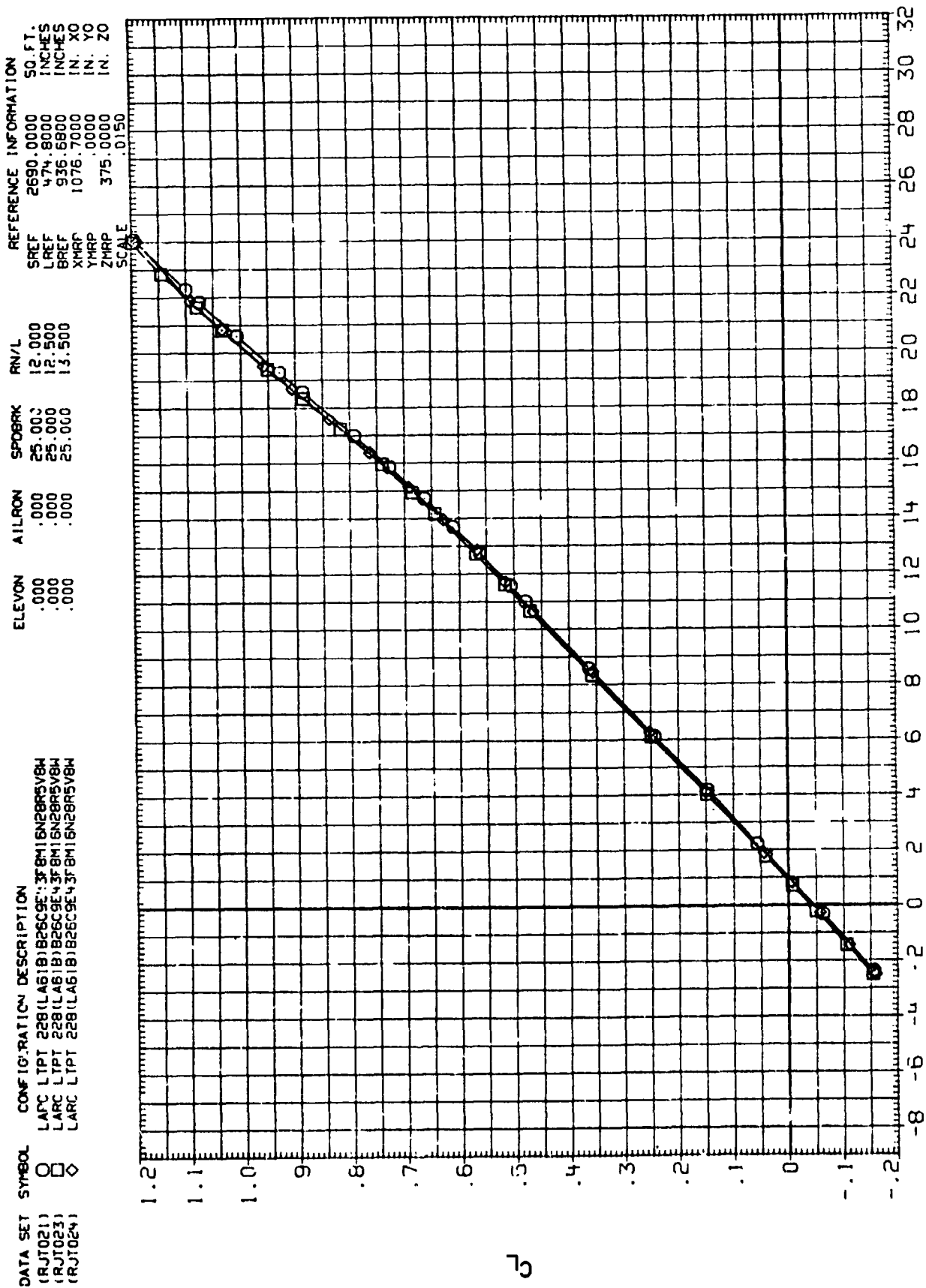


FIGURE 9(B). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS.
CONTROL SURFACES AT 0 DEGREES, MACH= 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	SPDRK	RN/L	REFERENCE INFORMATION
(RJ021)	○	LARC L1PT 228(LA6:1)B26C9E43F8M16N28R5V8H	.000	.000	25.000	12.000	SREF -690.0000 SO.FT.
(RJ023)	□	LARC L1PT 228(LA6:1)B26C9E43F8M16N28R5V8H	.000	.000	25.000	12.500	LREF 474.8000 INCHES
(RJ024)	◇	LARC L1PT 228(LA6:1)B26C9E43F8M16N28R5V8H	.000	.000	25.000	13.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE 0.150

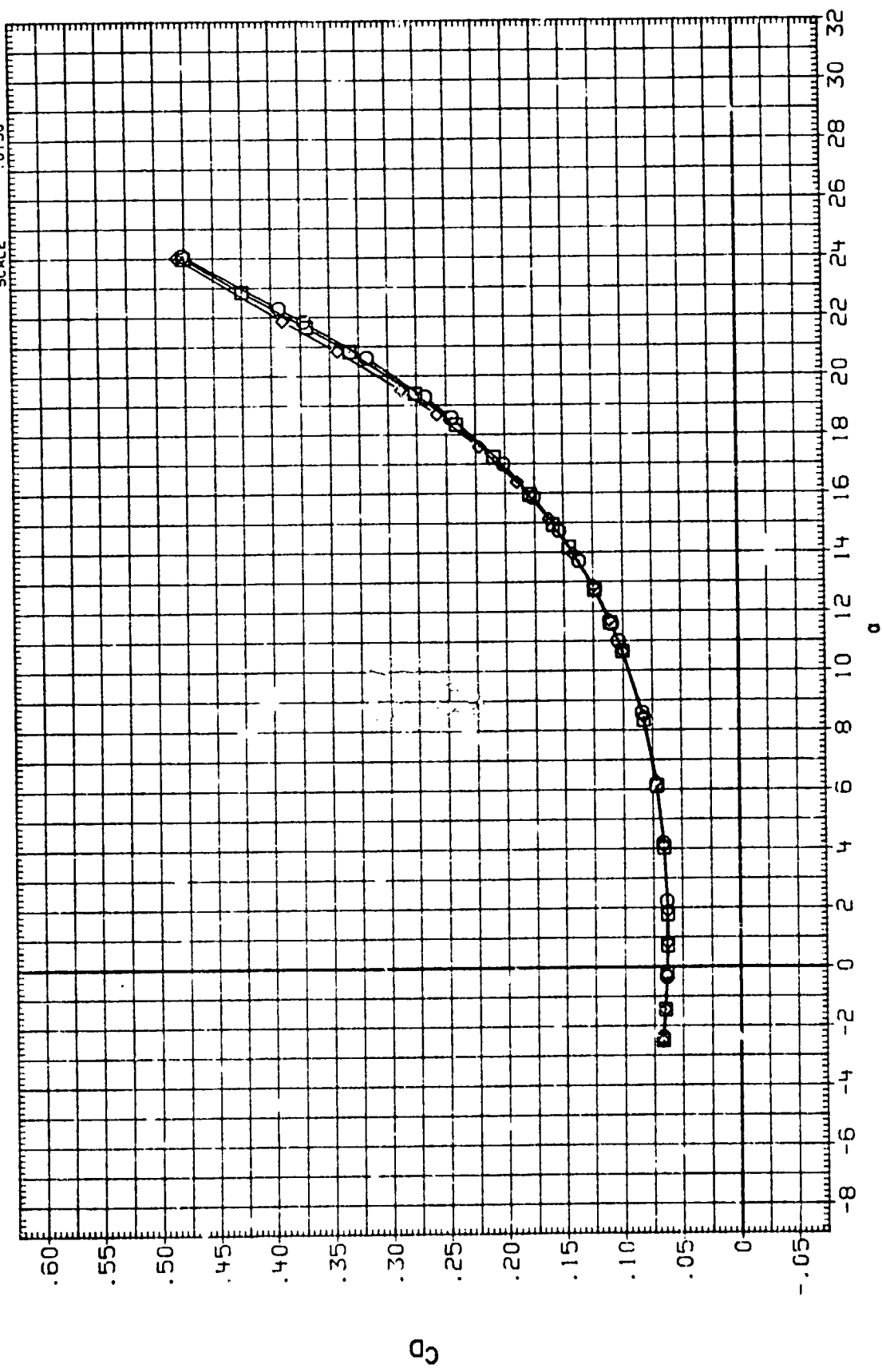


FIGURE 9(B). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS.
 CONTROL SURFACES AT 0 DEGREES, MACH= 0.20
 (A) MACH = .20 PAGE 44

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	SPDBRK	RN/L	REFERENCE INFORMATION
(RJ1021)	○	LARC LTPT 226(LA61B)B26C9E43F8M16N28R5V8M	.000	.000	25.000	12.000	SREF 2690.0000 SO.FT.
(RJ1023)	◇	LARC LTPT 226(LA61B)B26C9E43F8M16N28R5V8M	.000	.000	25.000	12.500	LREF 474.8000 INCHES
(RJ1024)	◇	LARC LTPT 226(LA61B)B26C9E43F8M16N28R5V8M	.000	.000	25.000	13.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							-SCALE .0150

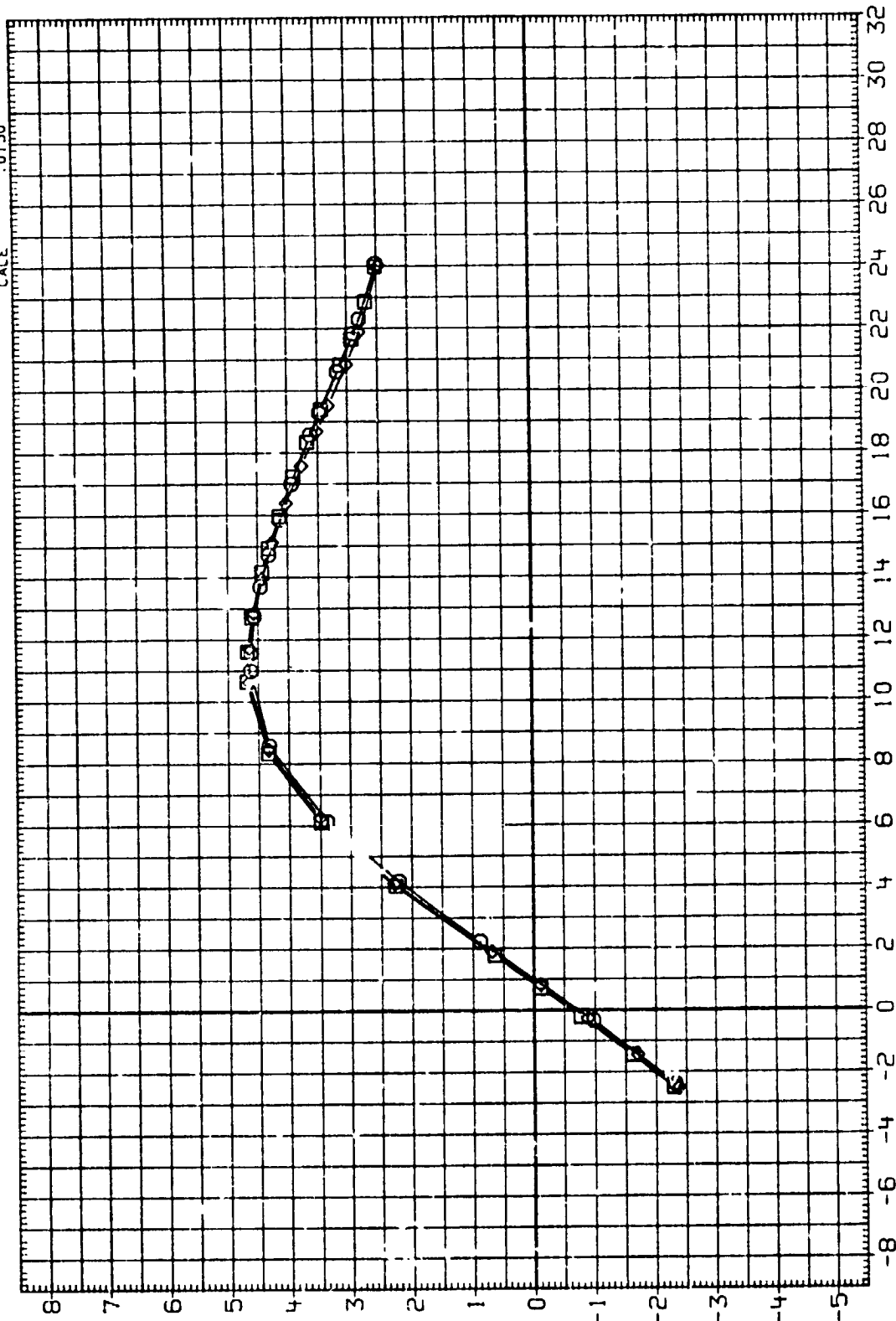


FIGURE 9(B). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS.
CONTROL SURFACES AT 0 DEGREES, MACH= 0.20

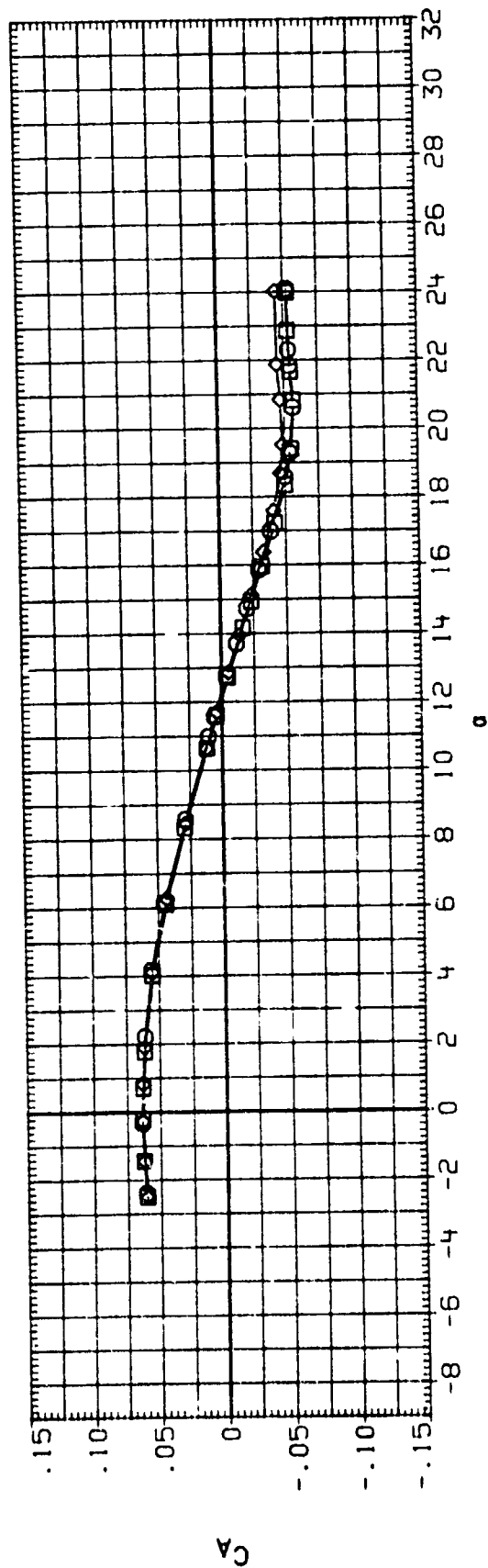
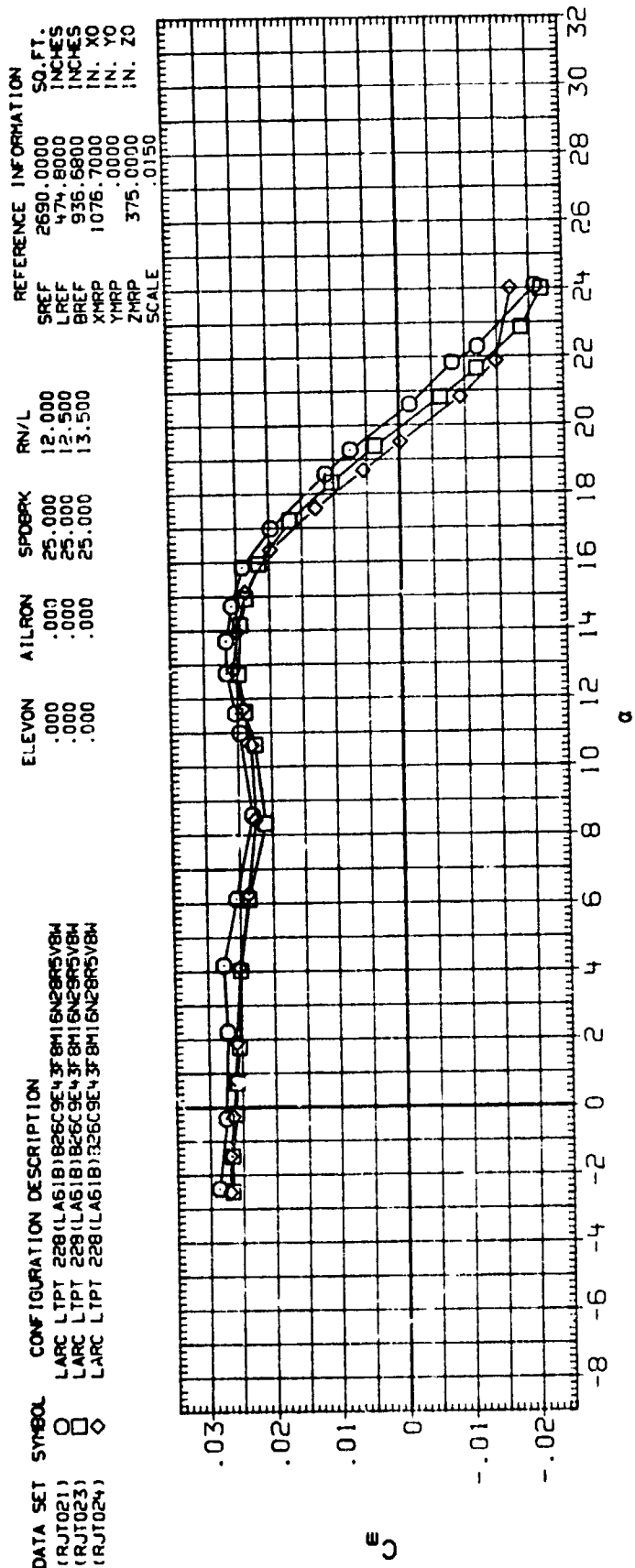


FIGURE 9(B). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.20

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	SPOILER	RN/L	REFERENCE INFORMATION
(RJ1021)	○	LARC LTPT 228(LAS1B)B26C9E43F8M16N26R5V8M	.000	.000	25.000	12.000	SREF 2690.0000 SQ.FT.
(RJ1023)	□	LARC LTPT 228(LAS1B)B26C9E43F8M16N26R5V8M	.000	.000	25.000	12.500	LREF 474.8000 INCHES
(RJ1024)	◇	LARC LTPT 228(LAS1B)B26C9E43F8M16N26R5V8M	.000	.000	25.000	13.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

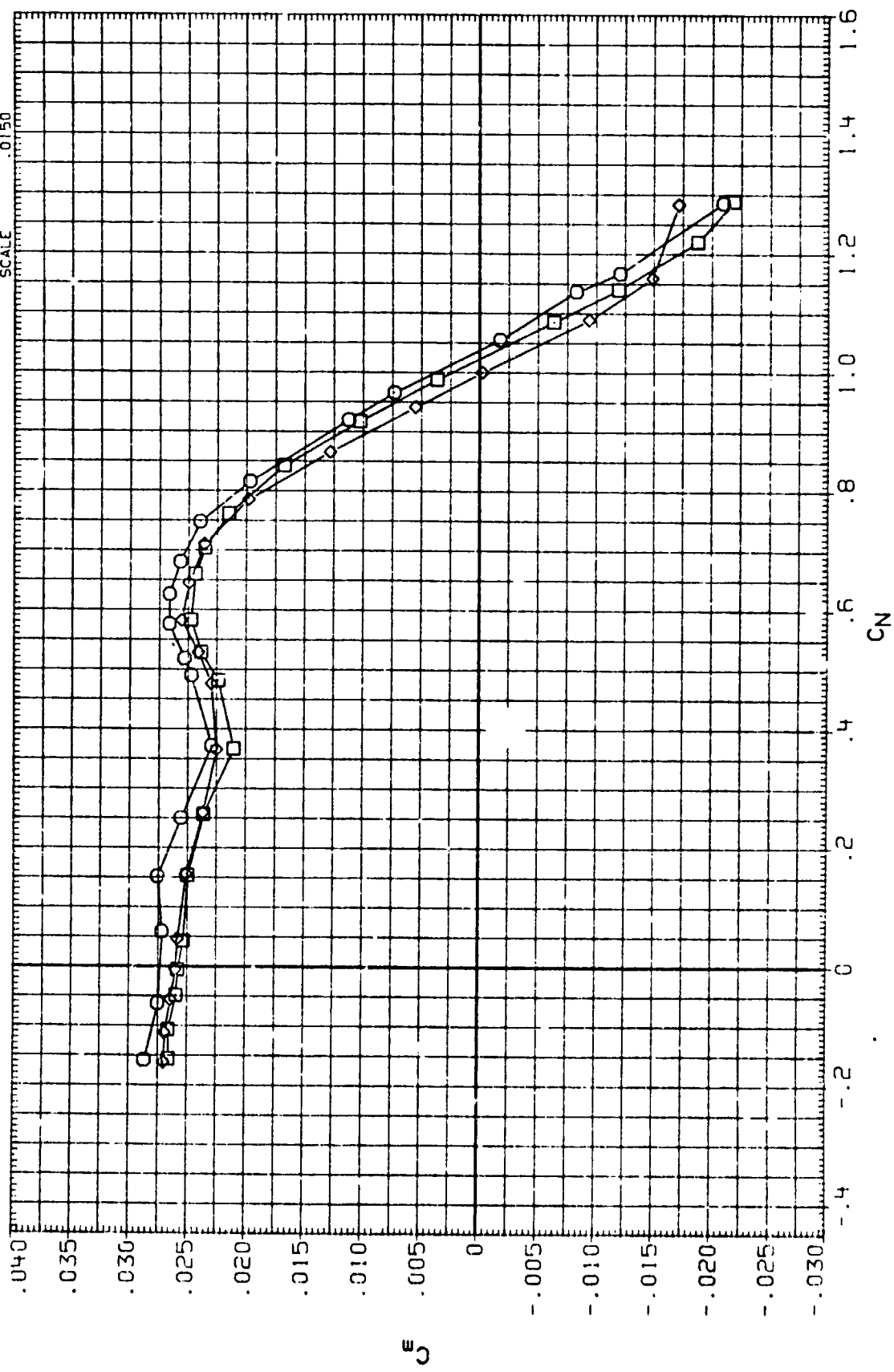


FIGURE 9(B). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RJT021) \square LARC LPT 228(LA61B)B26C9E43F8M16N28R5V8M
 (RJT023) \square LARC LPT 228(LA61B)B26C9E43F8M16N28R5V8M
 (RJT024) \diamond LARC LPT 228(LA61B)B26C9E43F8M16N28R5V8M

ELEVON AILRON SPOBRK RN/L
 .000 .000 25.000 12.000
 .000 .000 25.000 12.500
 .000 .000 25.000 13.500

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 YMRP 1076.7000 IN. YO
 ZMRP .0000 IN. ZO
 SCALE 0.150

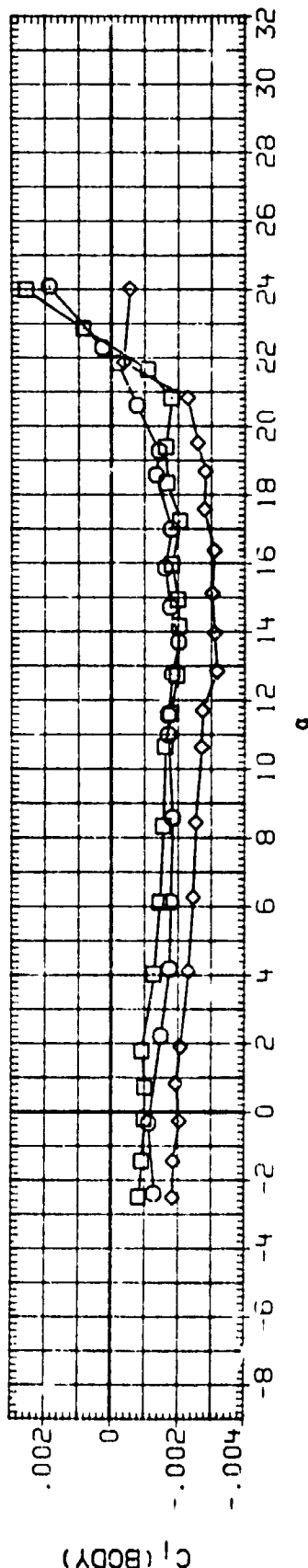
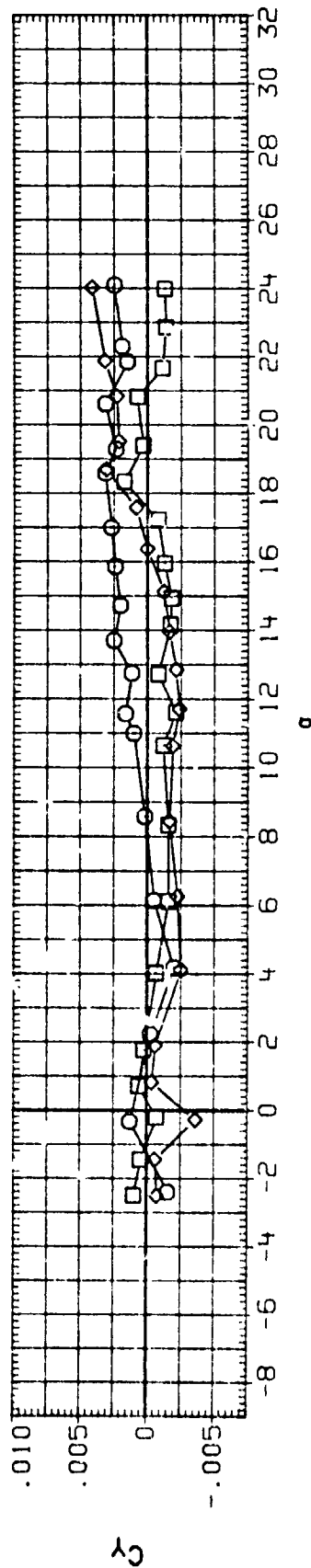
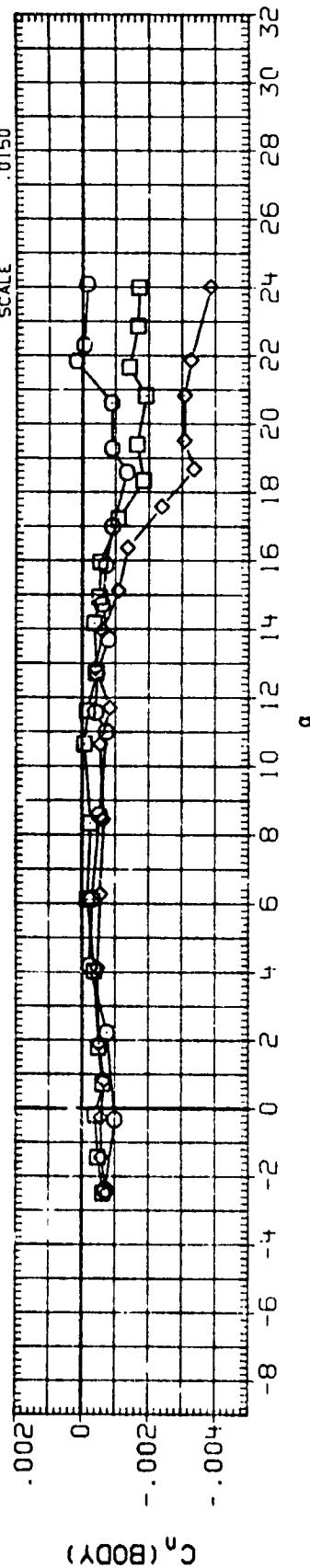


FIGURE 9(B). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS.
 CONTROL SURFACES AT 0 DEGREES, MACH= 0.20

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIL. RON	SPDRX	RN/L	REFERENCE INFORMATION
(SJT021)	○	LARC LTPT 228(LA618)B26C9E43F8M16N28R5VBW	.000	.000	25.000	12.000	SREF 2690.0000 SQ.FT.
(SJT023)	□	LARC LTPT 228(LA618)B26C9E43F8M16N28R5VBW	.000	.000	25.000	12.000	LREF 474.8000 INCHES
(SJT024)	◇	LARC LTPT 228(LA618)B26C9E43F8M16N28R5VBW	.000	.000	25.000	13.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

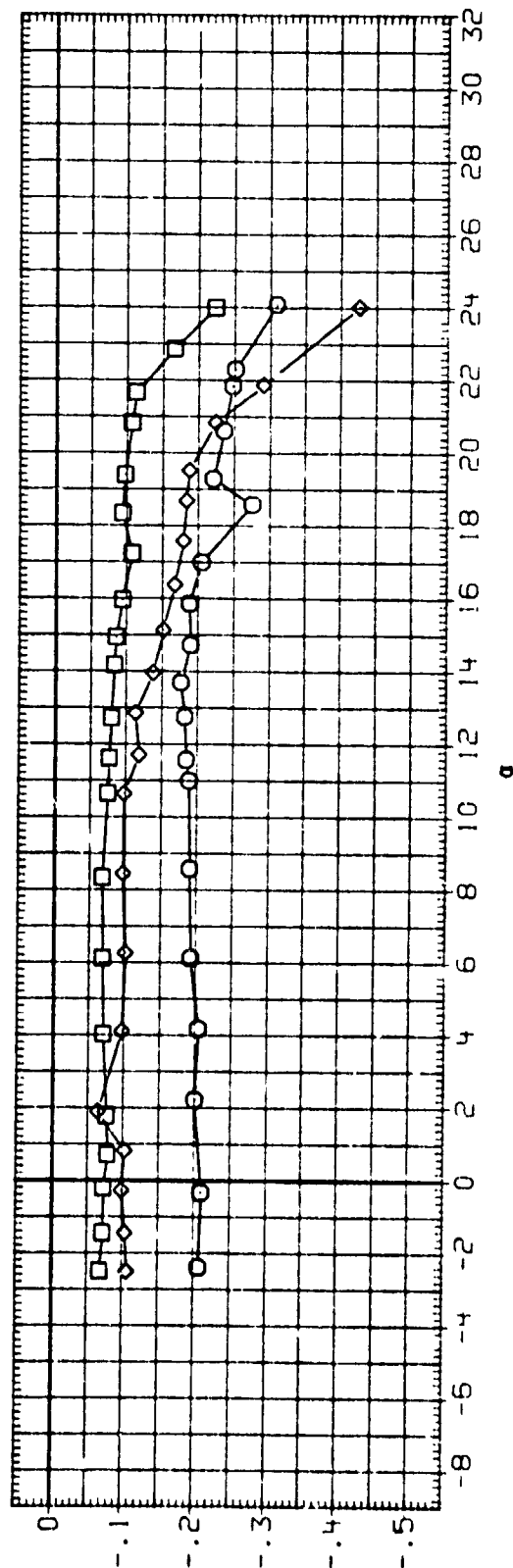
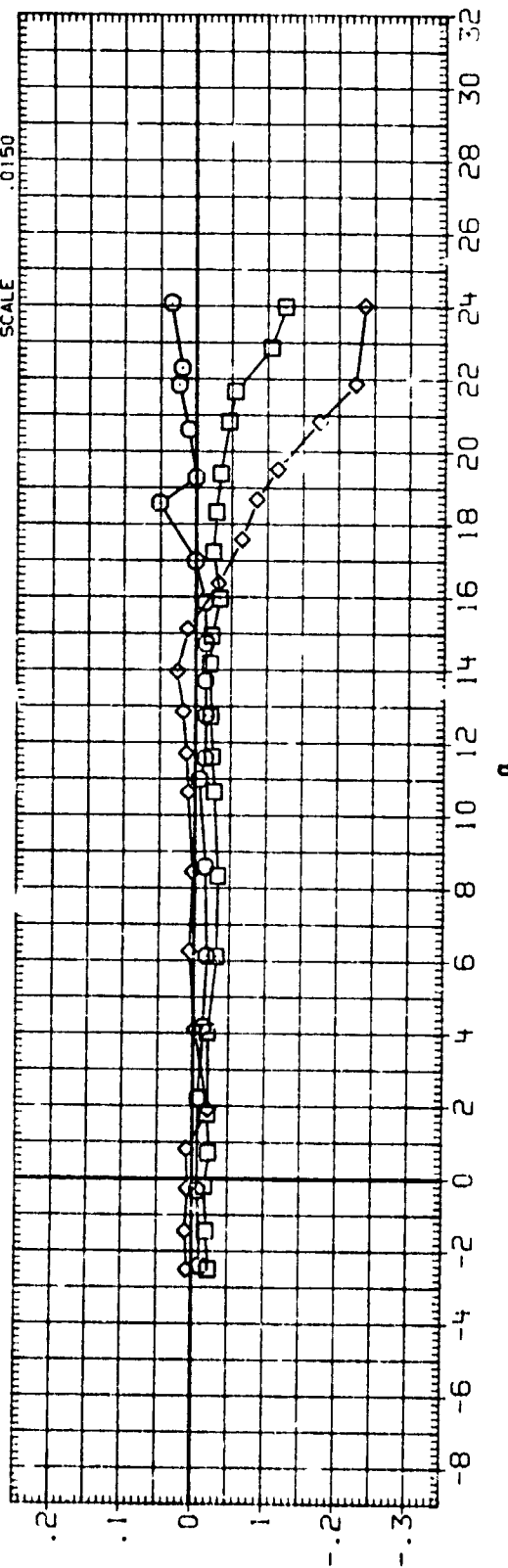


FIGURE 9(B). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	SPDRK	RN/L	REFERENCE INFORMATION
(RJT008)	□	LARC LPT 228(LA61B)B26C9E4 3F 8M16N28R5V8H	.000	.000	25.000	4.000	SREF 2690.0000 SQ.FT.
(RJT011)	□	LARC LPT 228(LA61B)B26C9E4 3F 8M16N28R5V8H	.000	.000	25.000	6.000	LREF 474.8000 INCHES
(RJT013)	□	LARC LPT 228(LA61B)B26C9E4 3F 8M16N28R5V8H	.000	.000	25.000	8.000	BREF 936.6800 INCHES
(RJT019)	△	LARC LPT 228(LA61B)B26C9E4 3F 8M16N28R5V8H	.000	.000	25.000	10.000	XMRP 1076.7000 IN. XO
							YMRP 375.0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

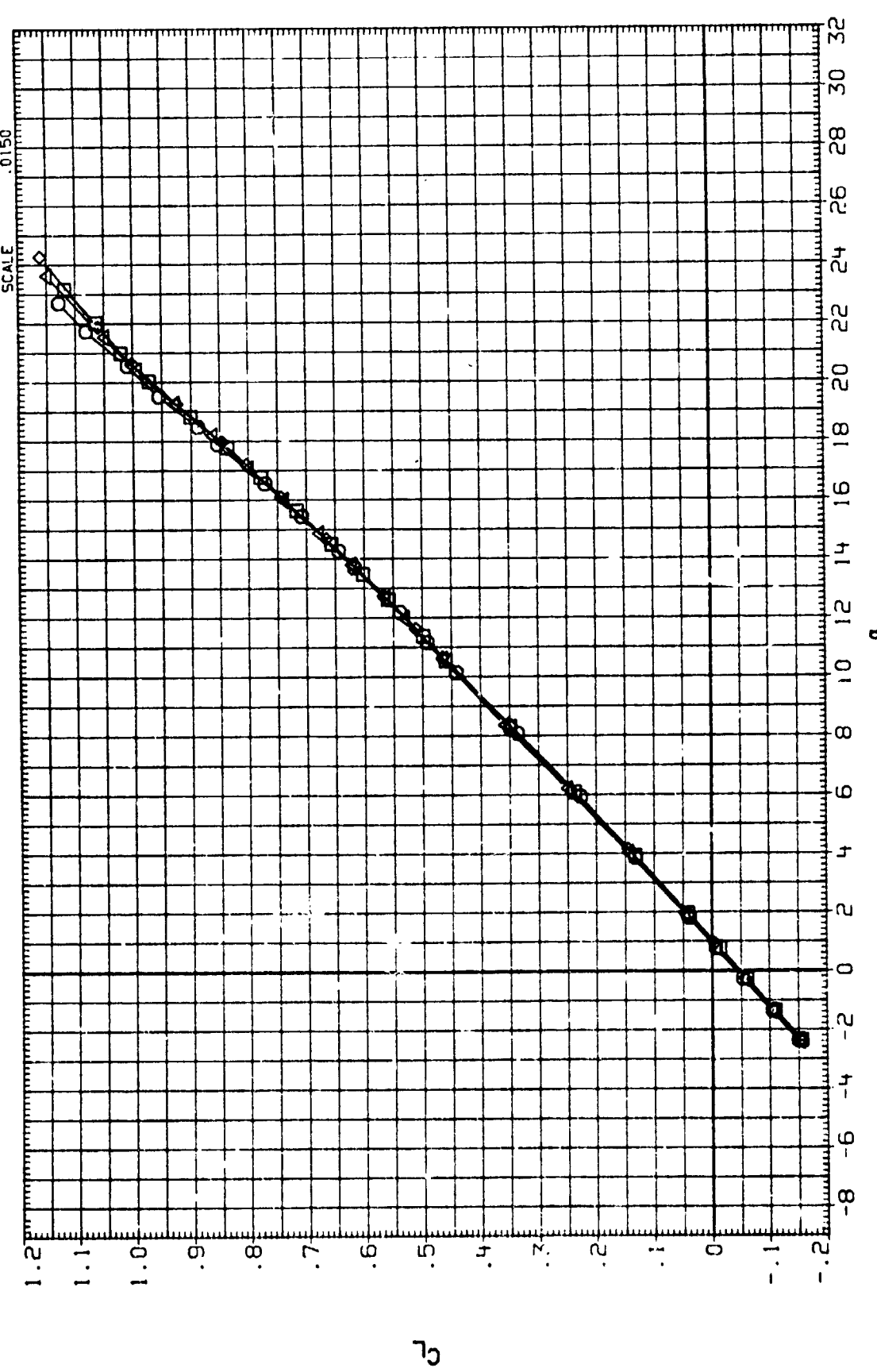


FIGURE 10. EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.25

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	CLEVO	AILRON	SPDRK	RN/L	REFERENCE INFORMATION
(RJT008)	○	LARC LTPT 228(LAS18)B26C9E4 3F8M16N28R5V8	.000	.000	25.000	4.000	SREF 2690.0000 SO.FT.
(RJT011)	□	LARC LTPT 228(LAS18)B26C9E4 3F8M16N28R5V8	.000	.000	25.000	6.000	LREF 474.8000 INCHES
(RJT013)	◇	LARC LTPT 228(LAS18)B26C9E4 3F8M16N28R5V8	.000	.000	25.000	8.000	BREF 936.6800 INCHES
(RJT019)	△	LARC LTPT 228(LAS18)B26C9E4 3F8M16N28R5V8	.000	.000	25.000	10.000	XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

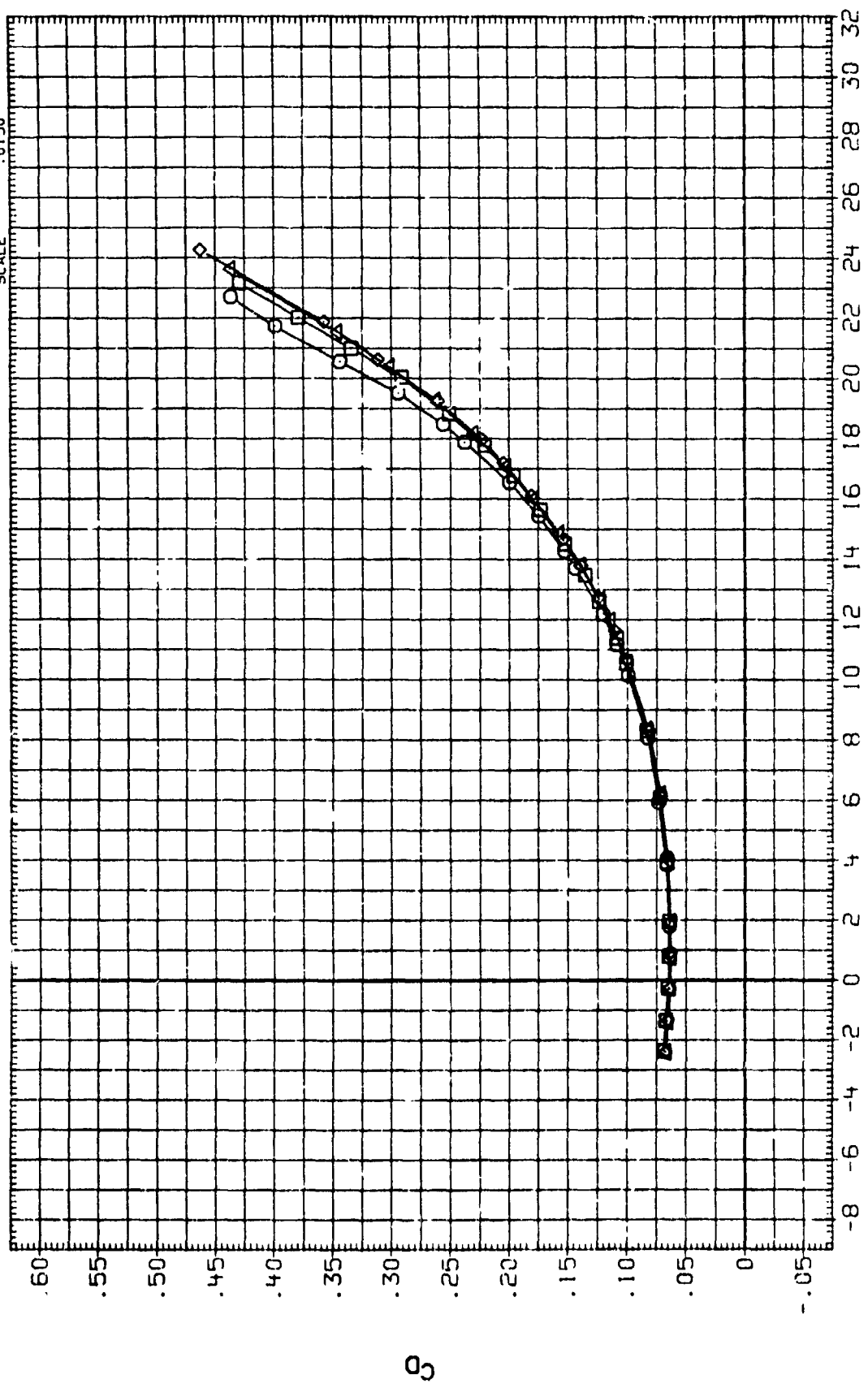


FIGURE 10. EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.25

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	SPDRK	RN/L	REFERENCE INFORMATION
(RJ008)	○	LARC LTPT 228(LA618)B26C9E4 3F8M16N28R5V8M	.000	.000	25.000	4.000	SREF 2690.0000 SQ.FT.
(RJ011)	□	LARC LTPT 228(LA61E)B26C9E4 3F8M16N28R5V8M	.000	.000	25.000	6.000	LREF 474.8000 INCHES
(RJ013)	◇	LARC LTPT 228(LA618)B26C9E4 3F8M16N28R5V8M	.000	.000	25.000	8.000	BREF 936.6800 INCHES
(RJ019)	△	LARC LTPT 228(LA618)B26C9E4 3F8M16N28R5V8M	.000	.000	25.000	10.000	XMRP 1076.7000 IN. XO
							ZMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

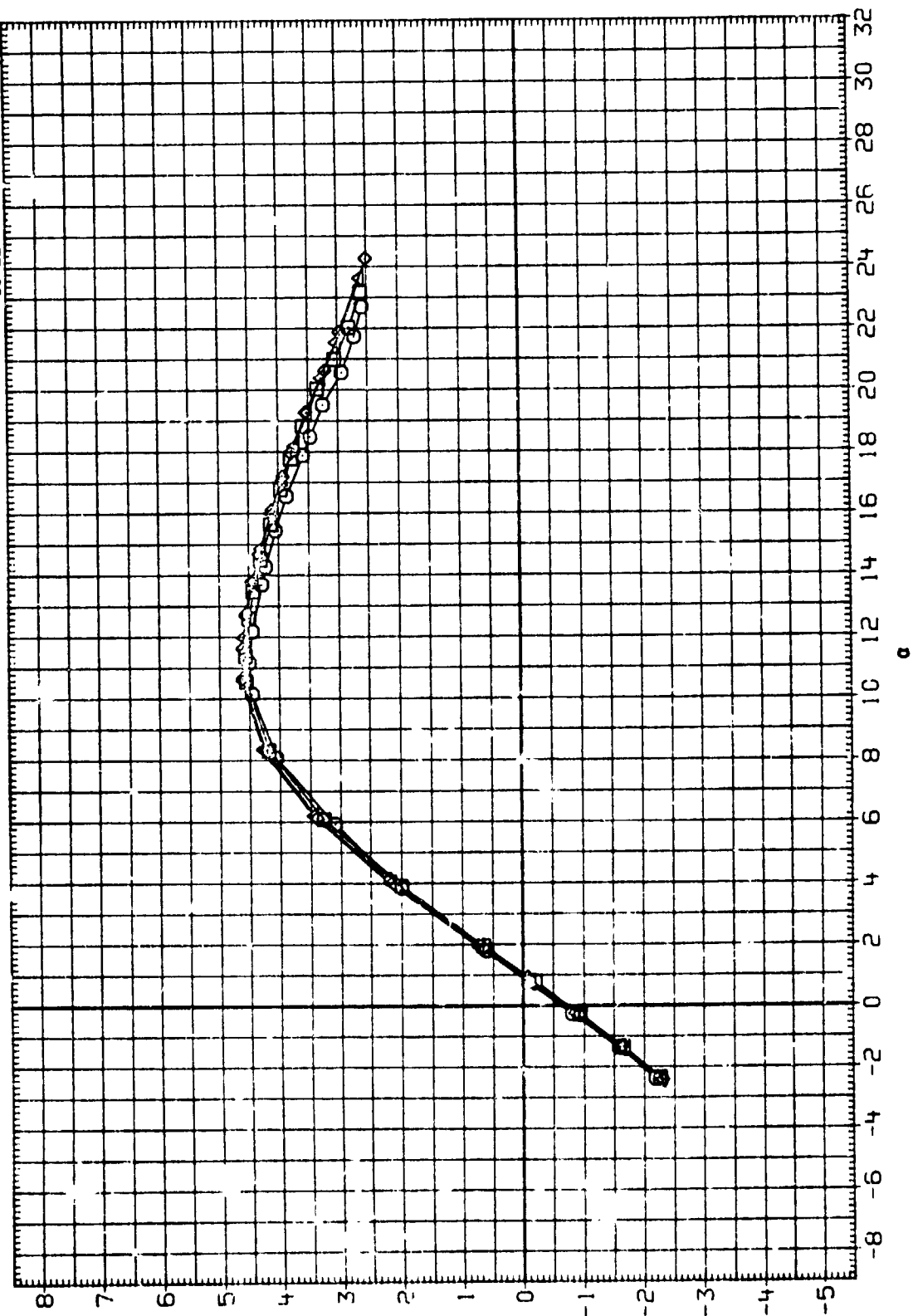


FIGURE 10. EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS,
CONTROL SURFACES AT 0 DEGREES, MACH= 0.25

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	SPDRK	RN/L	REFERENCE INFORMATION
(RJT008)	○	LARC LTPT 228(LA618)B26C9E43 3M16N28P5VB4	.000	.000	25.000	4.000	SREF 2690.0000 SQ. FT.
(RJT011)	□	LARC LTPT 228(LA618)B26C9E43 3M16N28P5VB4	.000	.000	25.000	6.000	LREF 474.8000 INCHES
(RJT013)	◇	LARC LTPT 228(LA618)B26C9E43 3M16N28P5VB4	.000	.000	25.000	8.000	BREF 336.6800 INCHES
(RJT019)	△	LARC LTPT 228(LA618)B26C9E43 3M16N28P5VB4	.000	.000	25.000	10.000	XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE 0.150

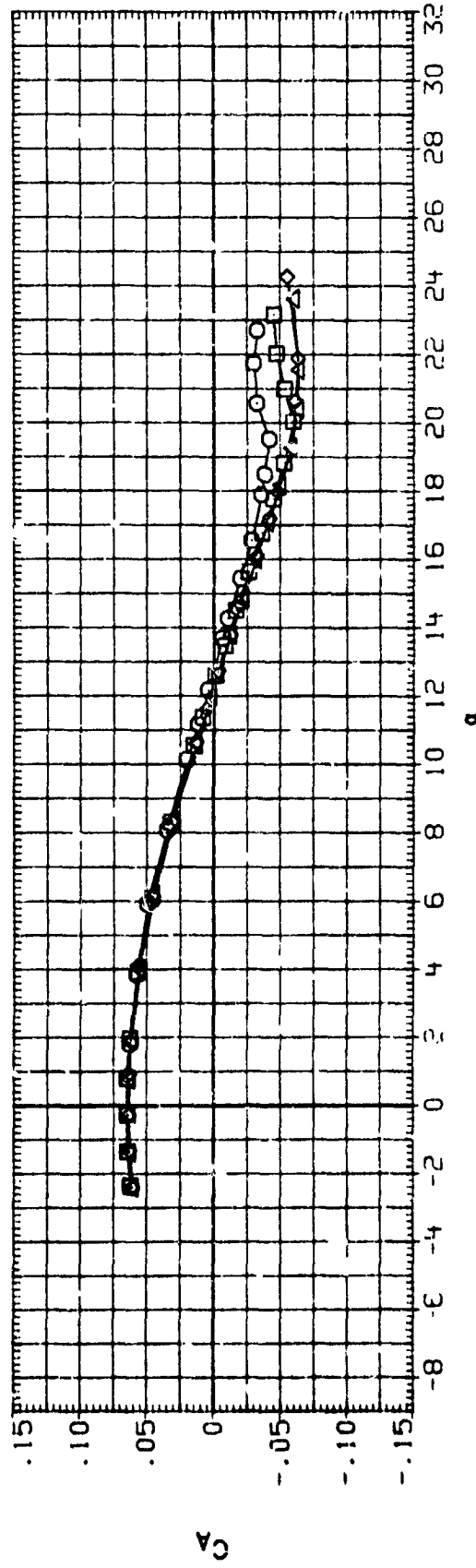
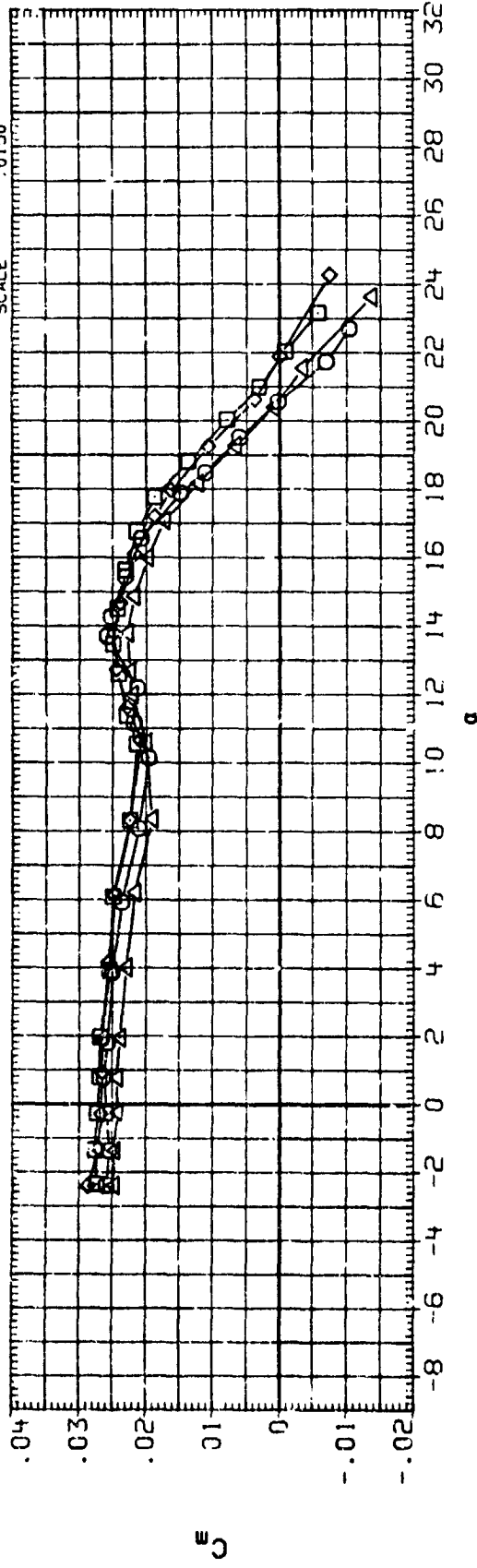


FIGURE 10. EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.25

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	SPDRBY	RN/L	REFERENCE INFORMATION
(RJ008)	○	LARC LPT 228(LA618)B26C9E4 3F 8M16N28R5V8M	.000	.000	25.000	4.000	SREF 2690.0000 SQ.FT.
(RJ011)	□	LARC LPT 228(LA618)B26C9E4 3F 8M16N28R5V8M	.000	.000	25.000	6.000	LREF 474.8000 INCHES
(RJ013)	△	LARC LPT 228(LA618)B26C9E4 3F 8M16N28R5V8M	.000	.000	25.000	8.000	BREF 936.2800 INCHES
(RJ019)	△	LARC LPT 228(LA618)B26C9E4 3F 8M16N28R5V8M	.000	.000	25.000	10.000	XMRP 1076.7000 IN. X0
							ZMRP 375.0000 IN. Y0
							SCALE .0150

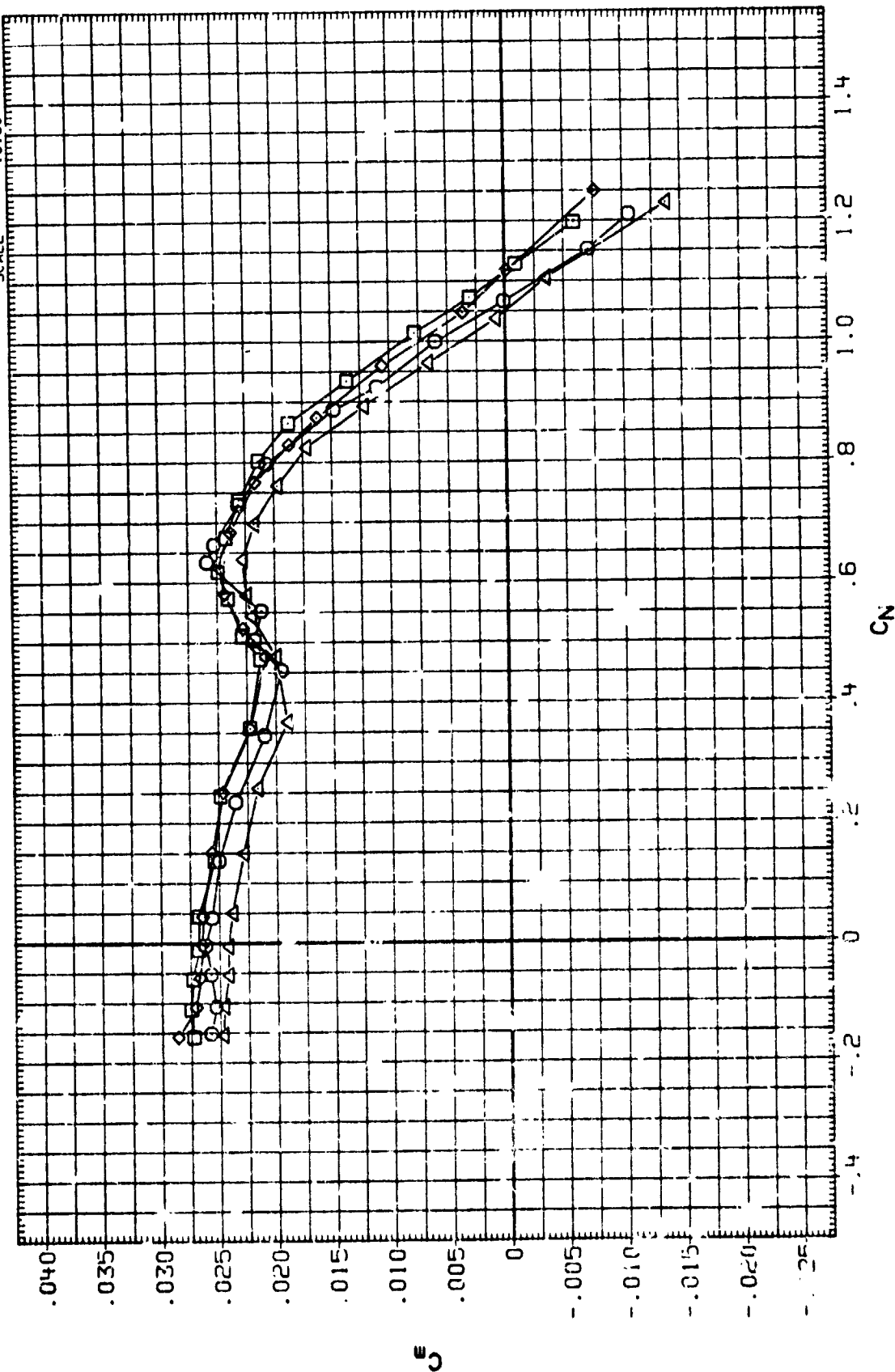


FIGURE 10. EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS.
CONTROL SURFACES AT 0 DEGREES, MACH= 0.25

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILTRON	SPOBRK	RN/L	REFERENCE INFORMATION
(RJT008)	○	LARC LTPT 228(LA61B)B26C9N3F8M16N28R5VBH	.000	.000	25.000	4.000	SREF 2690.0000 50.FT.
(RJT011)	□	LARC LTPT 228(LA61B)B26C9N3F8M16N28R5VBH	.000	.000	25.000	6.000	LREF 474.8000 INCHES
(RJT013)	◇	LARC LTPT 228(LA61B)B26C9N3F8M16N28R5VBH	.000	.000	25.000	8.000	BREF 936.6800 INCHES
(RJT019)	△	LARC LTPT 228(LA61B)B26C9N3F8M16N28R5VBH	.000	.000	25.000	10.000	XMRP 1076.7000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

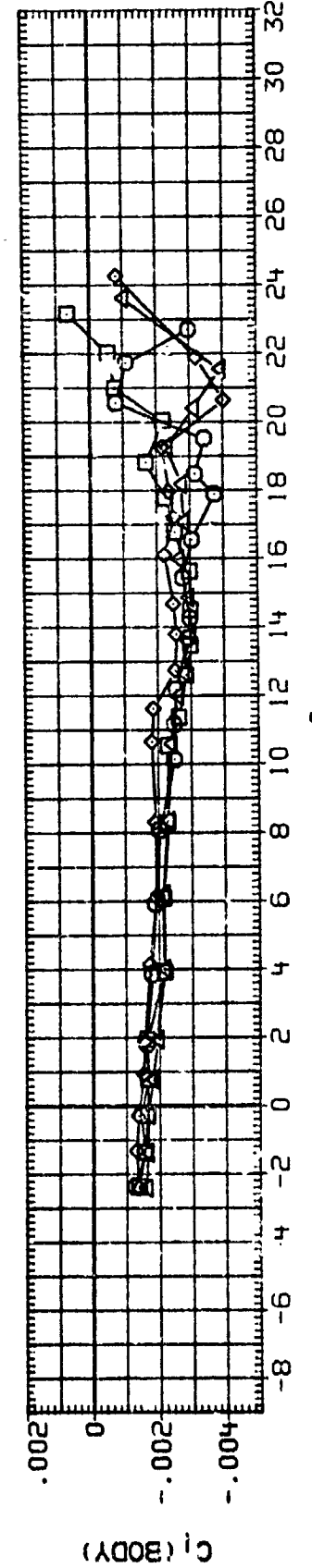
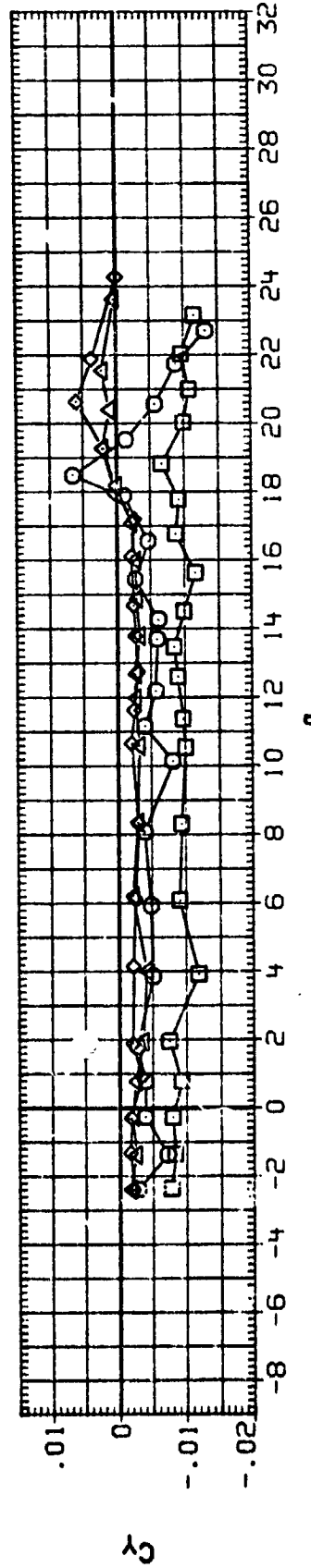
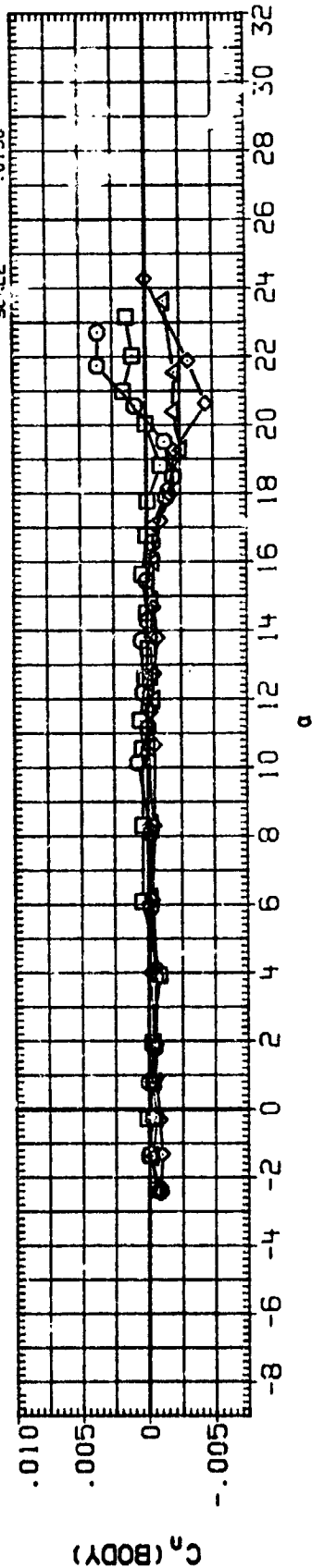


FIGURE 10. EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS.
CONTROL SURFACES AT 0 DEGREES, MACH= 0.25

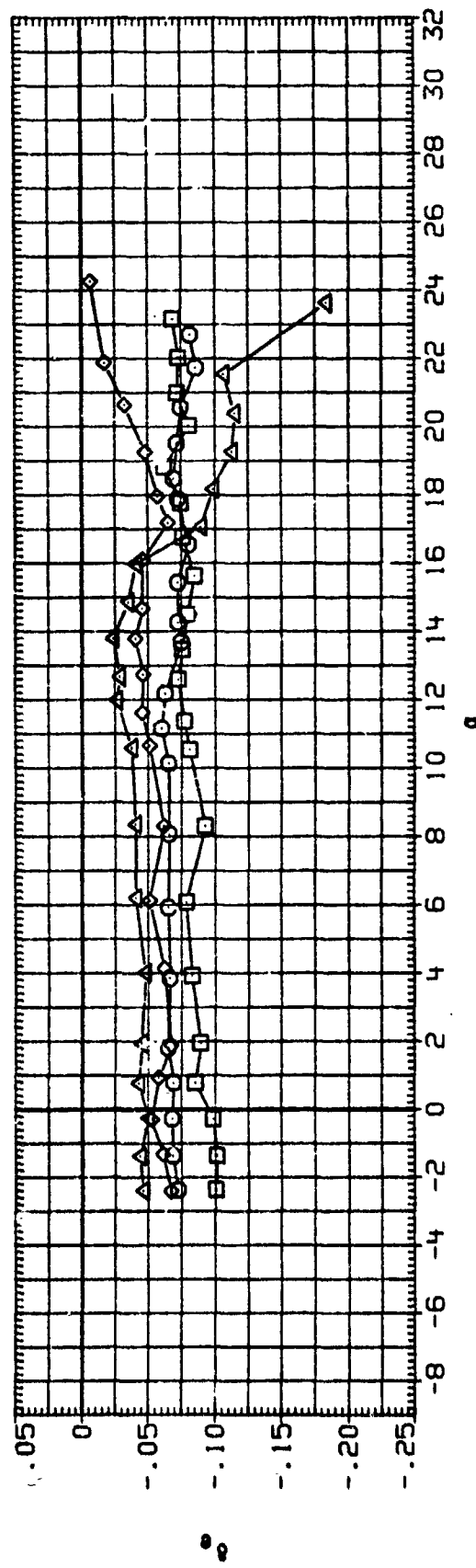
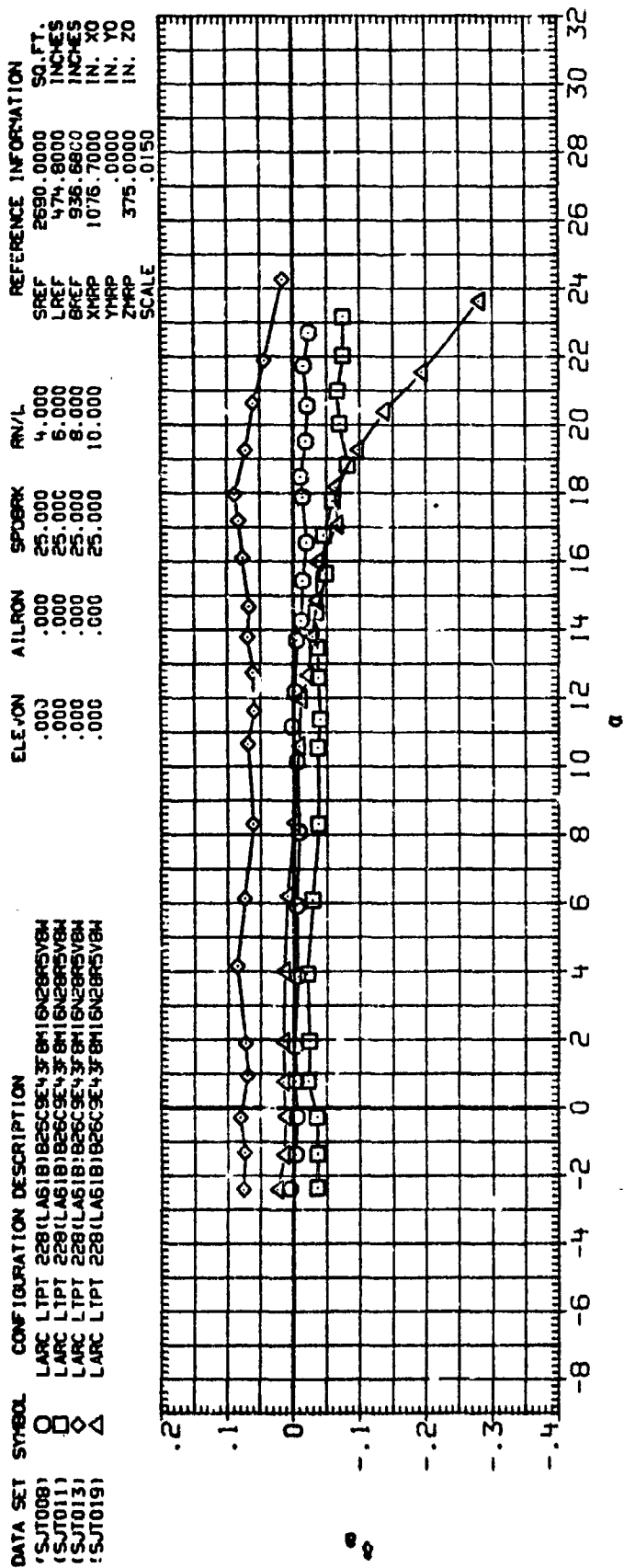


FIGURE 10. EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS.
CONTROL SURFACES AT 0 DEGREES, MACH= 0.25

(A) MACH = .25

REFERENCE INFORMATION

	SO. FT.	INCHES
SREF	2690.0000	
LREF	474.8000	
BREF	936.6800	
XMRP	1076.7000	
YMRP	.0000	
ZMRP	375.0000	

ELEVON

	AI	RON
	.000	
	.000	
	.000	
	.000	

SPDRK

	25.000
	25.000
	25.000
	25.000

RN/L

	2.000
	3.500
	4.000
	5.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RJ1001)	□	LARC LTPT 228(LA518)B26C9E43F8M16N28R5V8H
(RJ1004)	◇	LARC LTPT 228(LA51E)B26C9E43F8M16N28R5V8H
(RJ1007)	◇	LARC LTPT 228(LA518)B26C9E43F8M16N28R5V8H
(RJ1009)	△	LARC LTPT 228(LA518)B26C9E43F8M16N28R5V8H

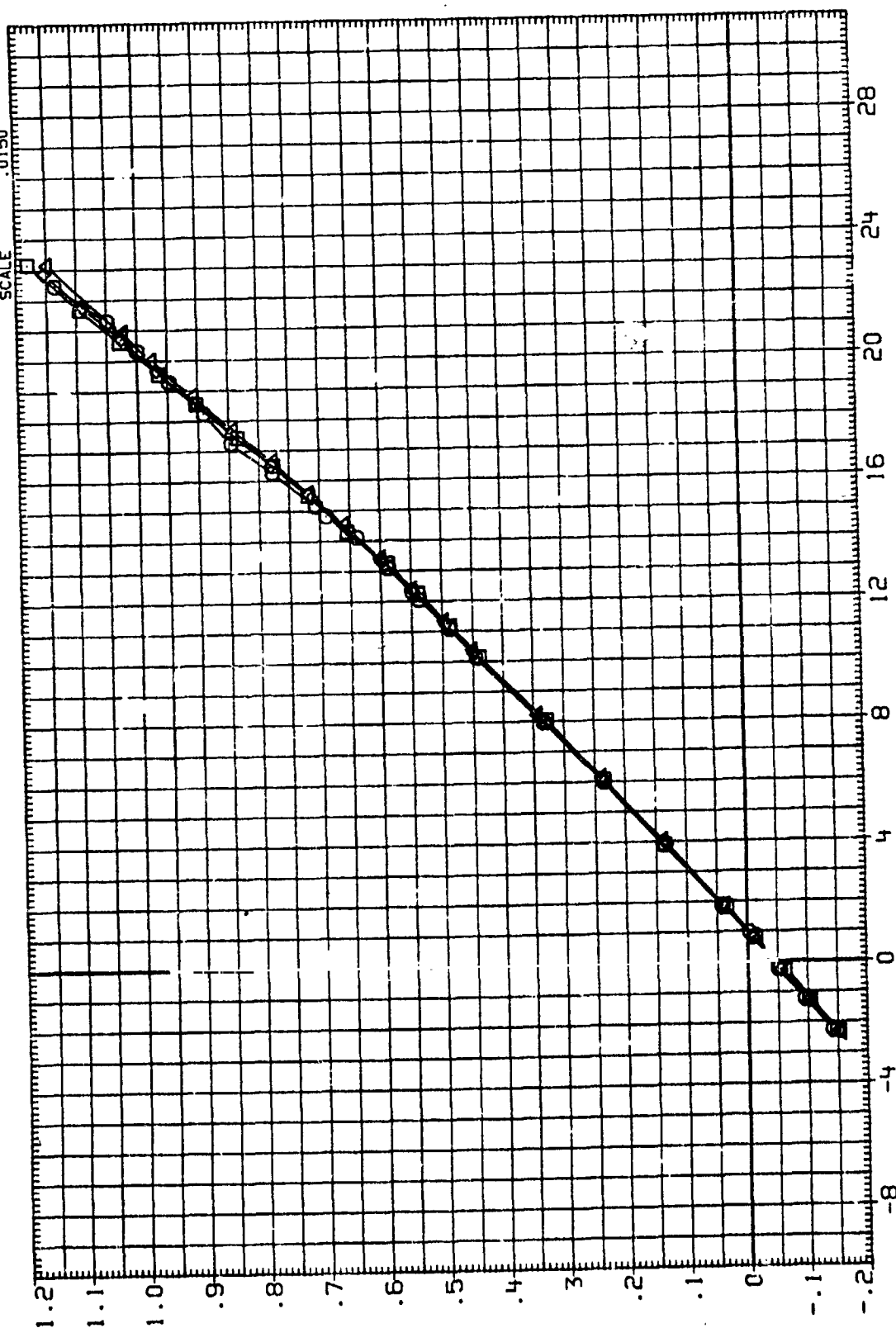


FIGURE 11(A). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	SPOILER	RN/L	REFERENCE INFORMATION
(RJ0011)	□	LARC LPT 228(LA61B)B26C9E43F8M1B28R5V8M	.000	.000	25.000	2.000	SQ.FT: 2690.0000
(RJ0004)	○	LARC LPT 228(LA61B)B26C9E43F8M1B28R5V8M	.000	.000	25.000	3.500	INCHES: 474.8000
(RJ0007)	△	LARC LPT 228(LA61B)B26C9E43F8M1B28R5V8M	.000	.000	25.000	4.000	INCHES: 936.6800
(RJ0009)	△	LARC LPT 228(LA61B)B26C9E43F8M1B28R5V8M	.000	.000	25.000	5.000	INCHES: 1076.7000
							IN. X0
							IN. Y0
							ZMRP 375.0000
							SCALE .0150

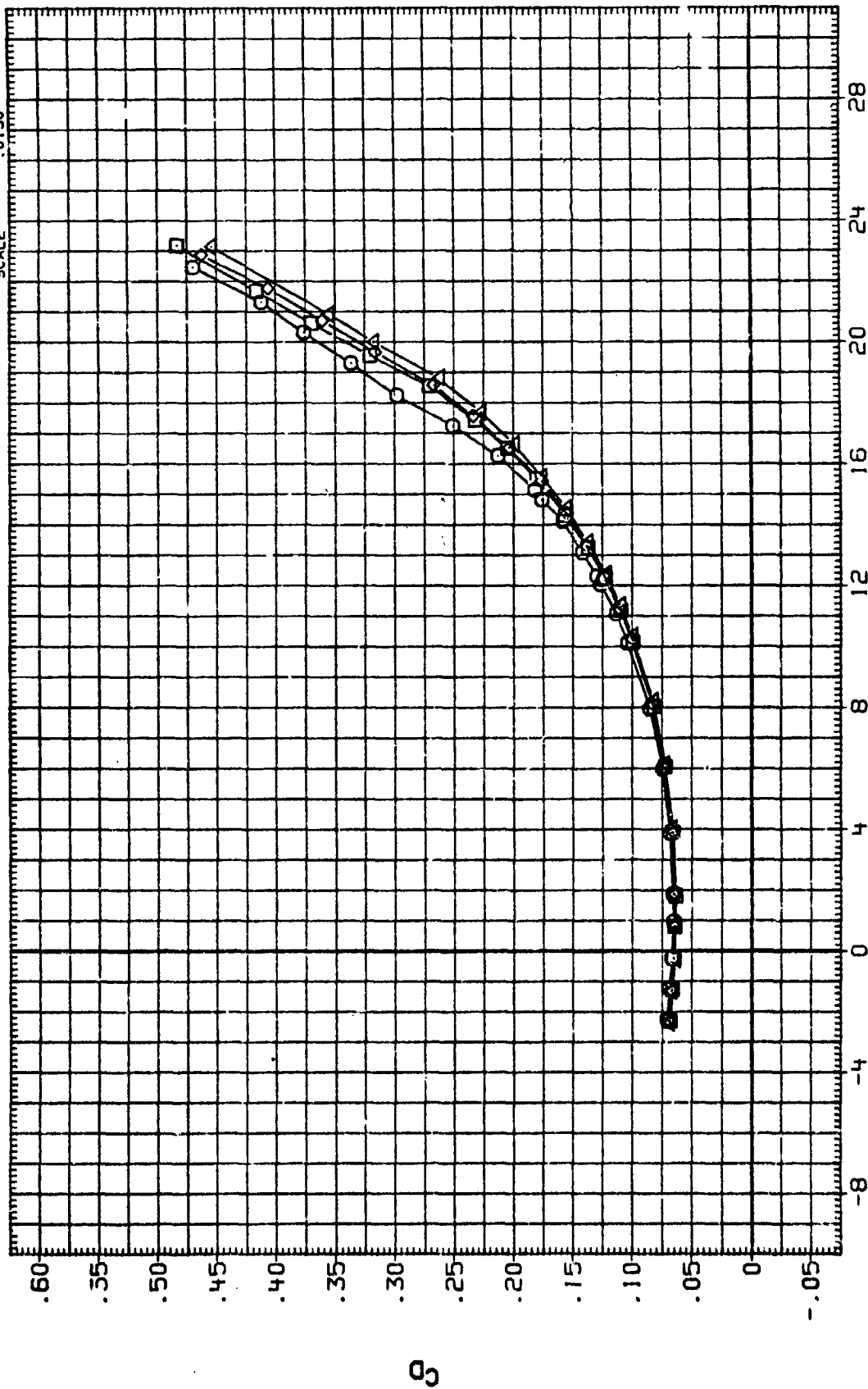


FIGURE 11(A). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS,
CONTROL SURFACES AT 0 DEGREES, MACH= 0.30

(A) MACH = .30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	SPOILER	FN/L	REFERENCE INFORMATION
(FJT001)	□	LARC LTPT 228(LA61B)B26C9E43F8H16A28R5V8H	.000	.000	25.000	2.000	SREF 2690.0000 SQ.FT.
(RJT004)	□	LARC LTPT 228(LA61B)B26C9E43F8H16A28R5V8H	.000	.000	25.000	3.500	LREF 474.8000 INCHES
(RJT007)	◇	LARC LTPT 228(LA61B)B26C9E43F8H16A28R5V8H	.000	.000	25.000	4.000	BREF 936.6800 INCHES
(RJT009)	△	LARC LTPT 228(LA61B)B26C9E43F8H16A28R5V8H	.000	.000	25.000	5.000	XMRP 1076.7000 IN. XO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

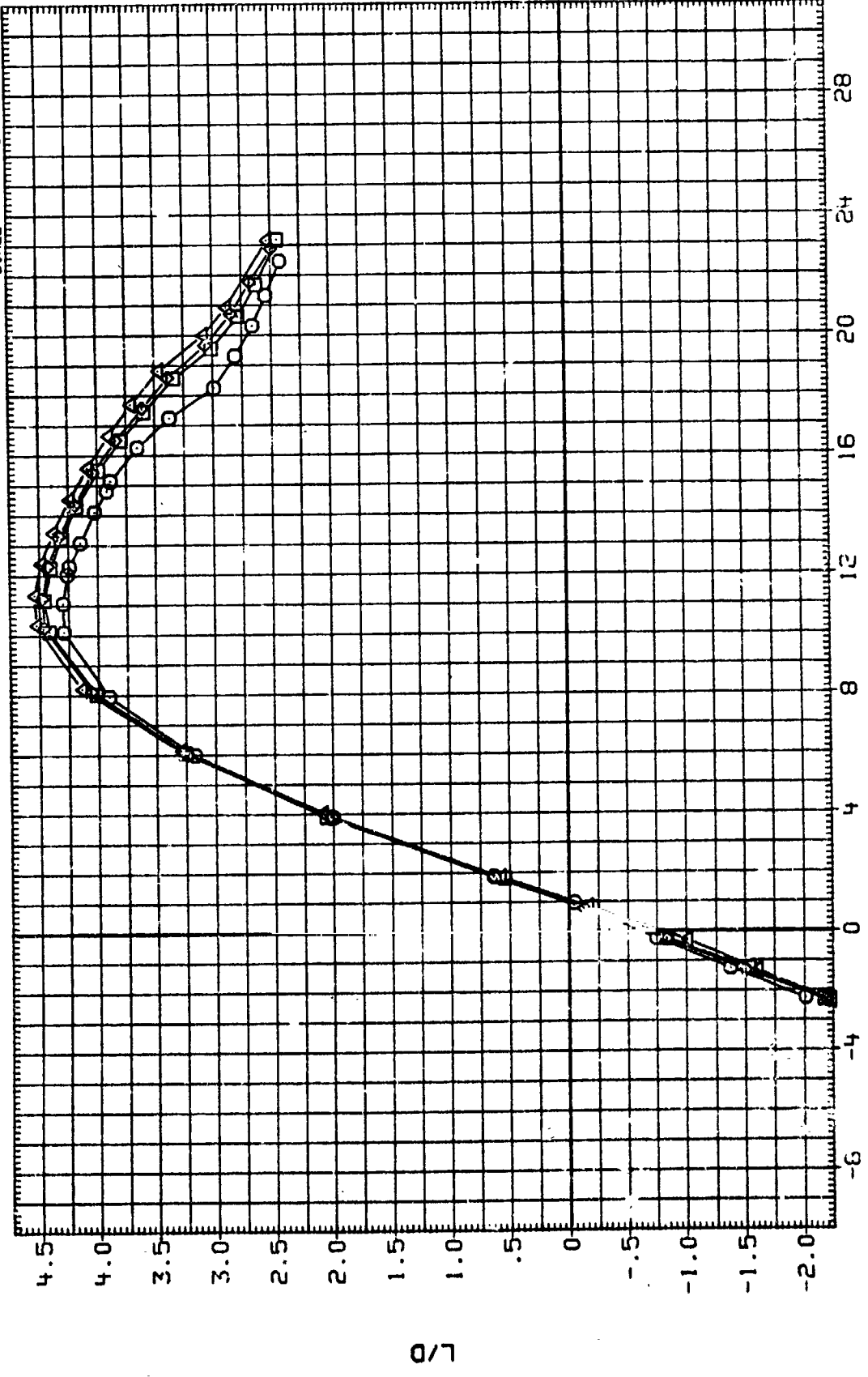


FIGURE 1(A). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	SPOBRK	RN/L	REFERENCE INFORMATION
(RJT001)	○	LARC LTPT 228(LA618)B26C9E43FBH16N28R5V8W	.000	.000	25.000	2.000	SREF 2690.0000 SQ.FT.
(RJT004)	□	LARC LTPT 228(LA618)B26C9E43FBH16N28R5V8W	.000	.000	25.000	3.500	LREF 474.8000 INCHES
(RJT007)	△	LARC LTPT 228(LA618)B26C9E43FBH16N28R5V8W	.000	.000	25.000	4.000	BREF 936.6800 INCHES
(RJT009)	◇	LARC LTPT 228(LA618)B26C9E43FBH16N28R5V8W	.000	.000	25.000	5.000	XMRP 1076.7000 IN. XC
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

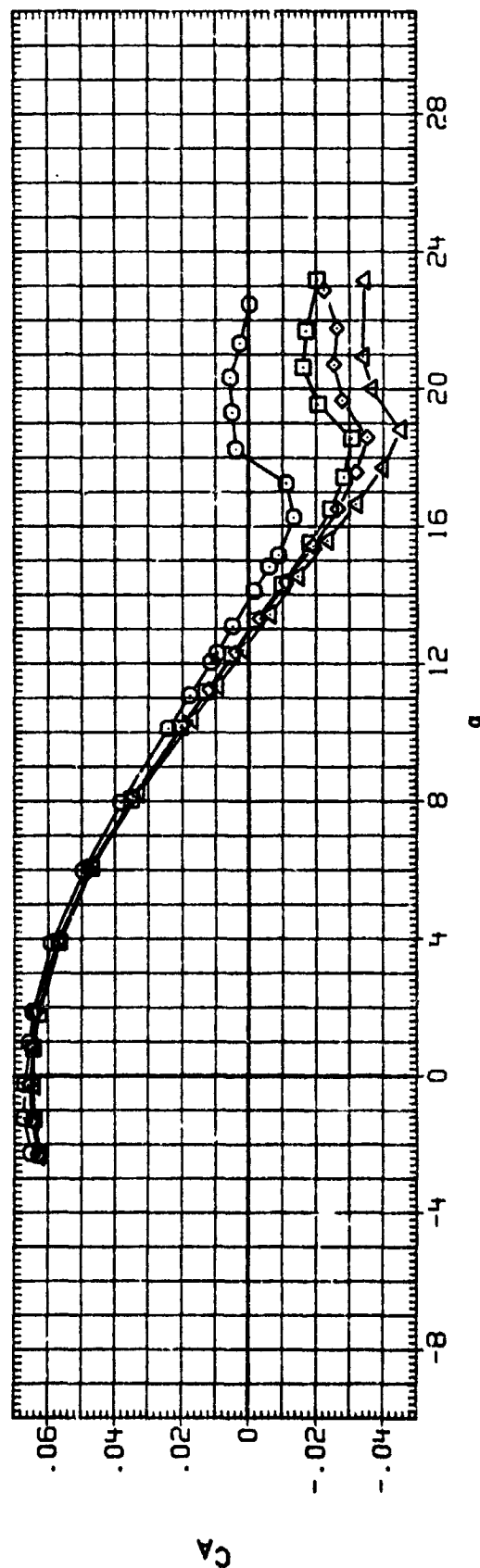
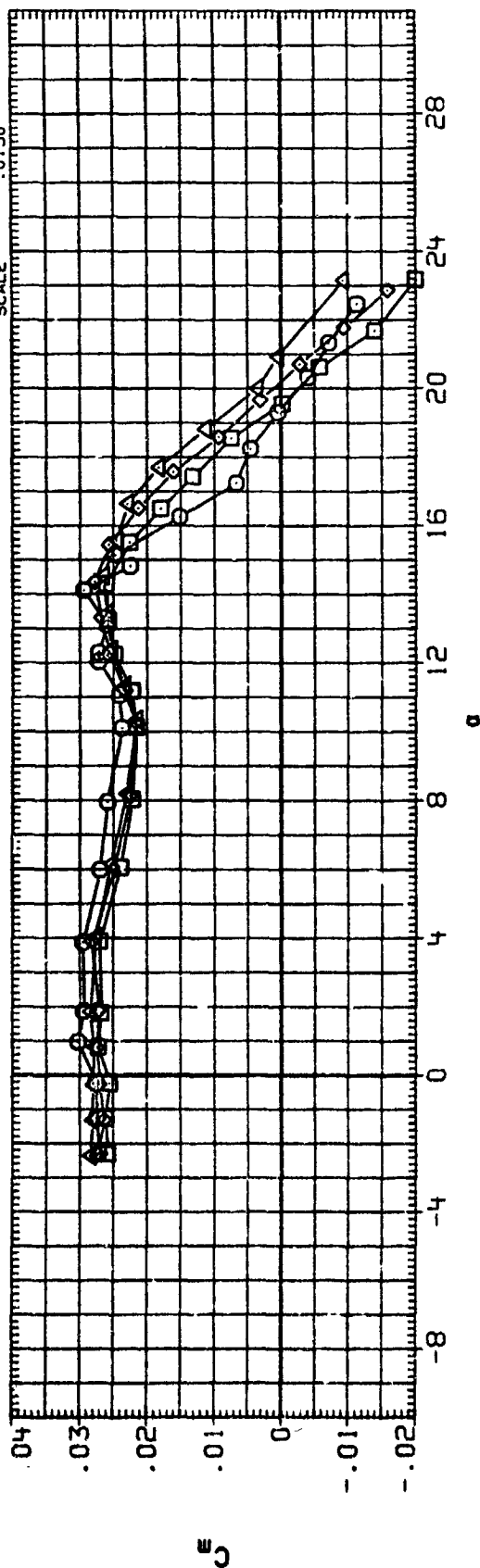


FIGURE 11(A). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.30

(A) MACH = .30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILPON	SPDBRK	RN/L	REFERENCE INFORMATION
(RJT001)	○	LARC LTPT 228(LA618)B26C9E4 3' 8M16N28R5V8M	.000	.000	25.000	2.000	SREF 2630.0000 SC.FT.
(RJT004)	□	LARC LTPT 228(LA618)B26C9E4 3' 8M16N28R5V8M	.000	.000	25.000	3.500	LREF 474.8000 INCHES
(RJT007)	△	LARC LTPT 228(LA618)B26C9E4 3' 8M16N28R5V8M	.000	.000	25.000	4.000	BREF 936.6800 INCHES
(RJT009)	◇	LARC LTPT 228(LA618)B26C9E4 3' 8M16N28R5V8M	.000	.000	25.000	5.000	XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE 0.150

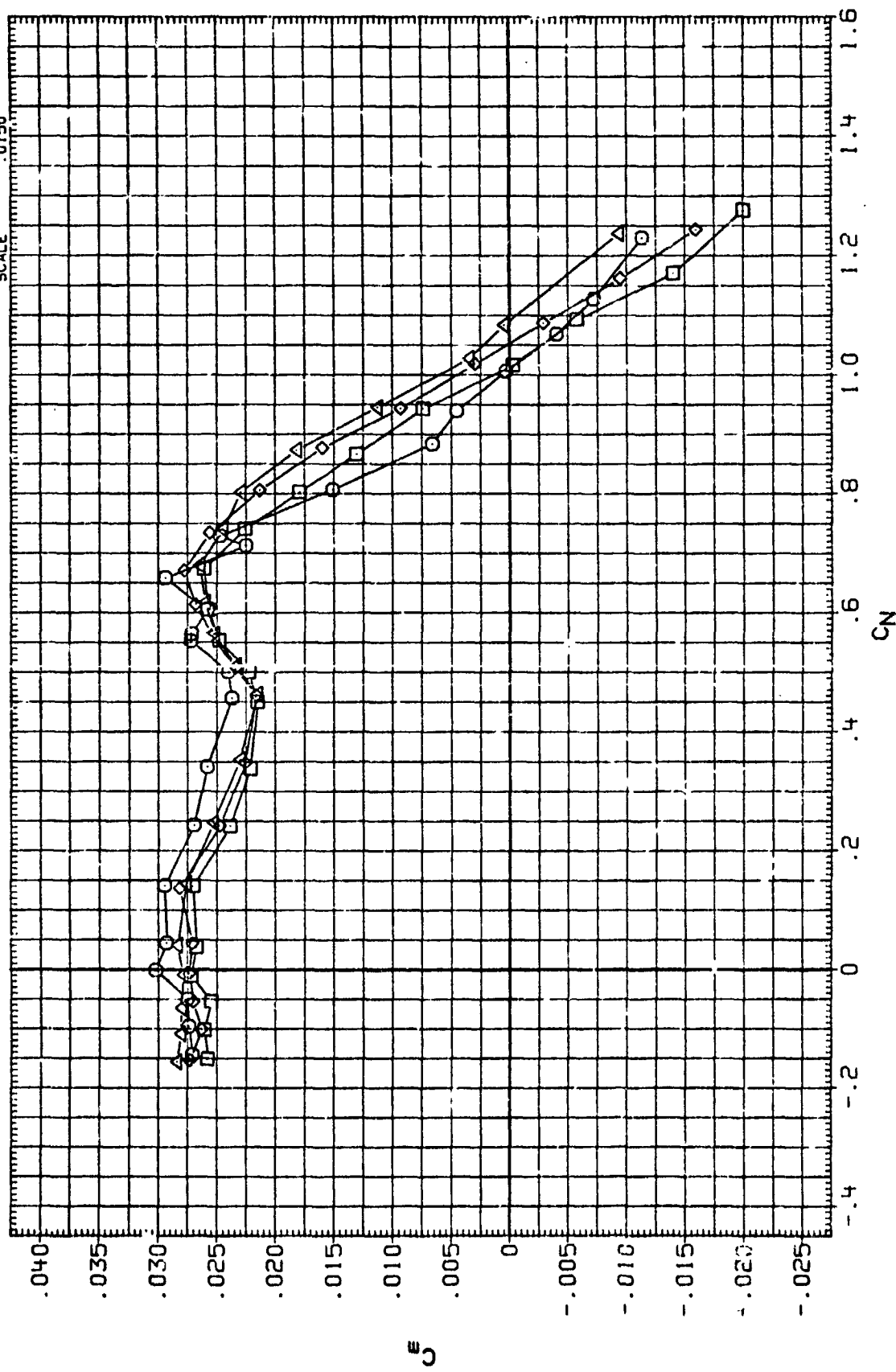


FIGURE 11(A). EFFECT OF REYNOLDS NUMBER ON ORRITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	SPOILER	RN/L	REFERENCE INFORMATION
(RJ0001)	○	LARC L1PT 228(LA61B)B26C9E43F8M16N28R5V84	.000	.000	25.000	2.000	SREF 2690.0000 SQ.FT.
(RJ0004)	◇	LARC L1PT 228(LA61B)B26C9E43F8M16N28R5V84	.000	.000	25.000	3.500	LREF 474.8000 INCHES
(RJ0007)	◇	LARC L1PT 228(LA61B)B26C9E43F8M16N28R5V84	.000	.000	25.000	4.000	BREF 936.6800 INCHES
(RJ0009)	△	LARC L1PT 228(LA61B)B26C9E43F8M16N28R5V84	.000	.000	25.000	5.000	XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

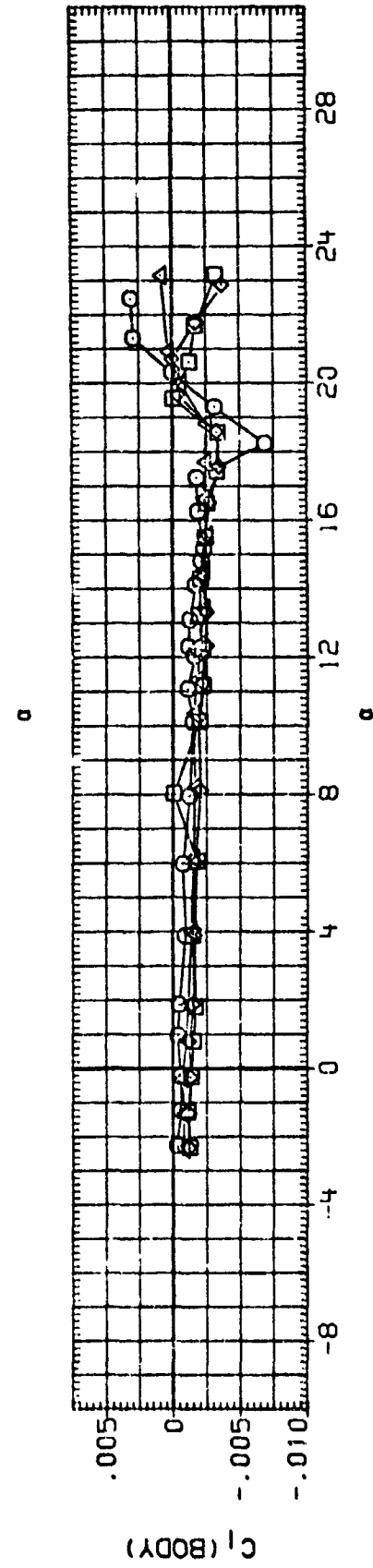
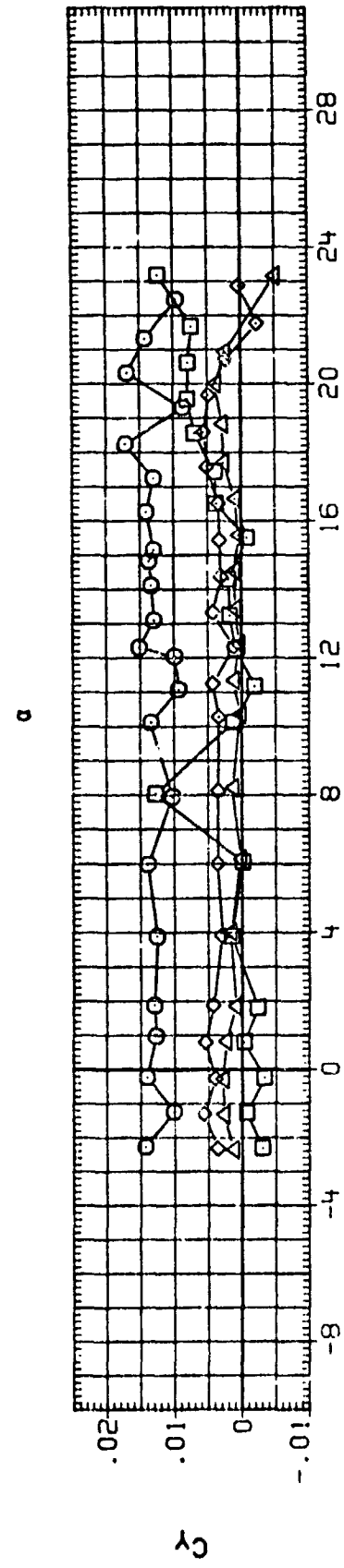
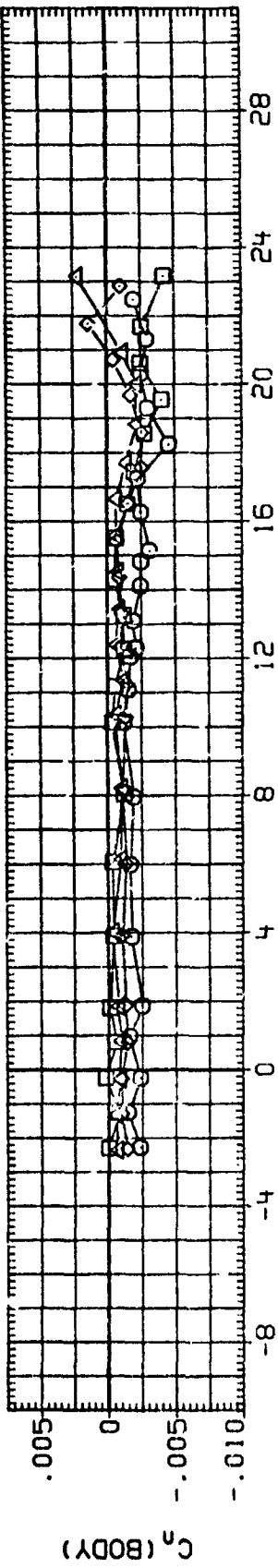


FIGURE 11(A). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	SPOILER	RN/L	REFERENCE INFORMATION
15JT001)	○	LARC LTPT 228(LA61B)B26C9E4 3F8M16N28R5V8W	.000	.000	25.000	2.000	SO.FT. 2690.0000
15JT004)	□	LARC LTPT 228(LA61B)B26C9E4 3F8M16N28R5V8W	.000	.000	25.000	3.500	INCHES 474.8030
15JT007)	◇	LARC LTPT 228(LA61B)B26C9E4 3F8M16N28R5V8W	.000	.000	25.000	4.000	INCHES 936.6800
15JT009)	△	LARC LTPT 228(LA61B)B26C9E4 3F8M16N28R5V8W	.000	.000	25.000	5.000	IN. X0 1075.7000
							IN. Y0 .0000
							IN. Z0 375.0000
							SCALE .0150

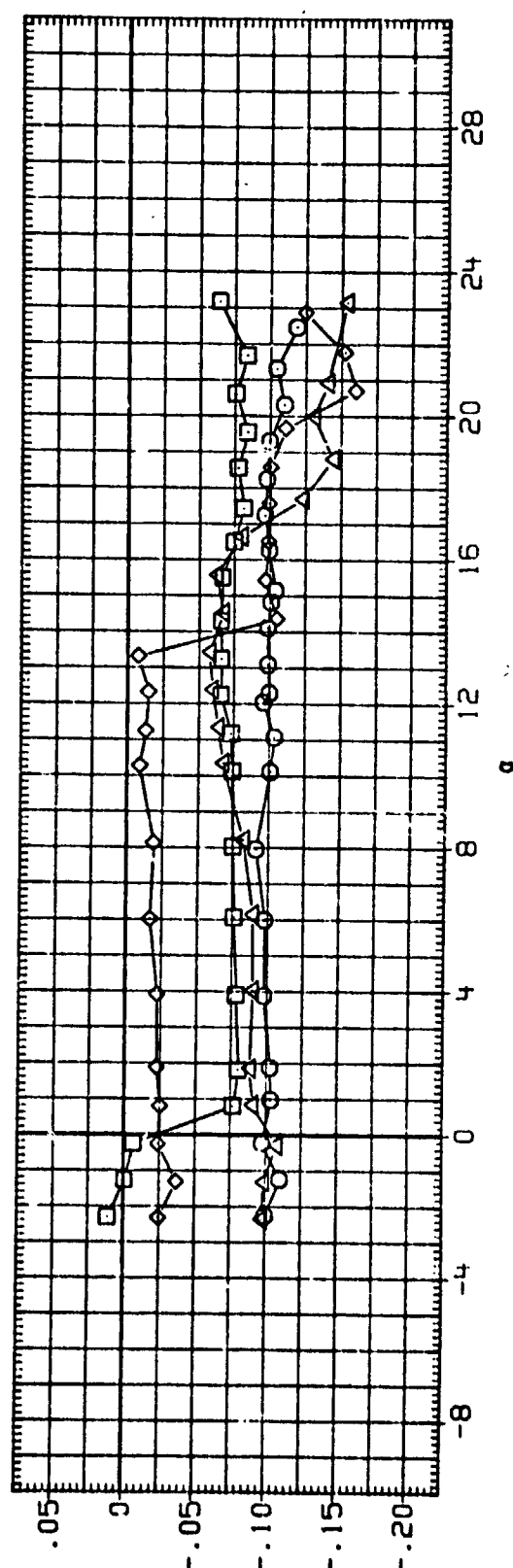
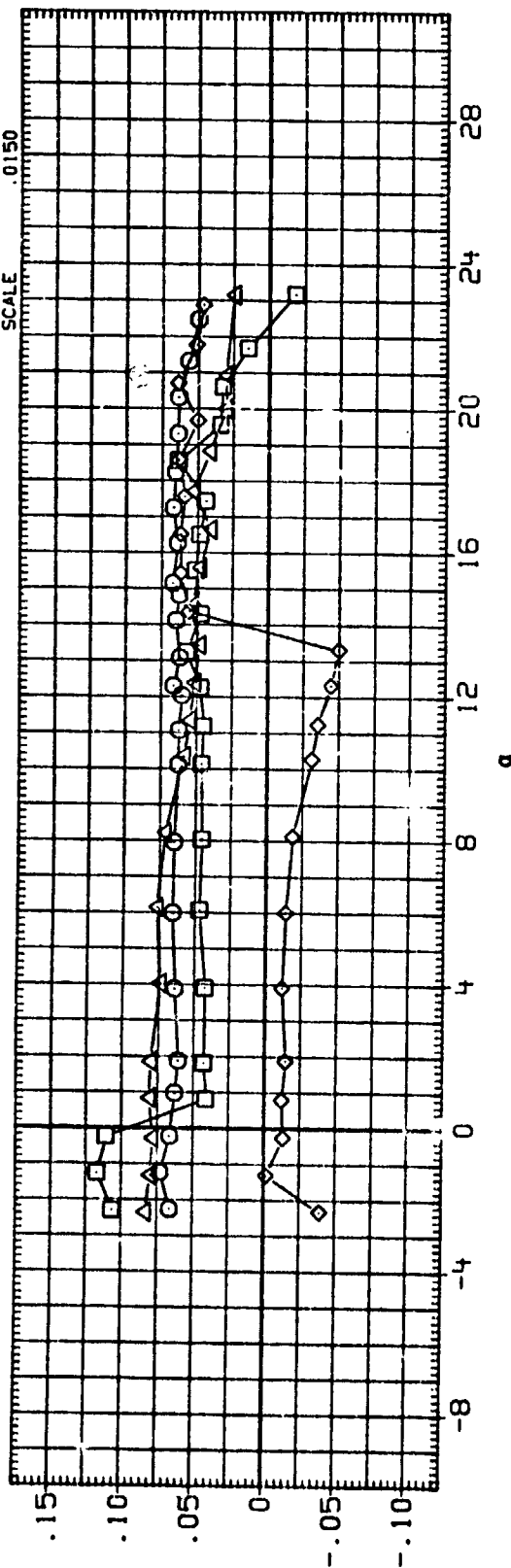


FIGURE 11(A). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS.
CONTROL SURFACES AT 0 DEGREES, MACH= 0.30

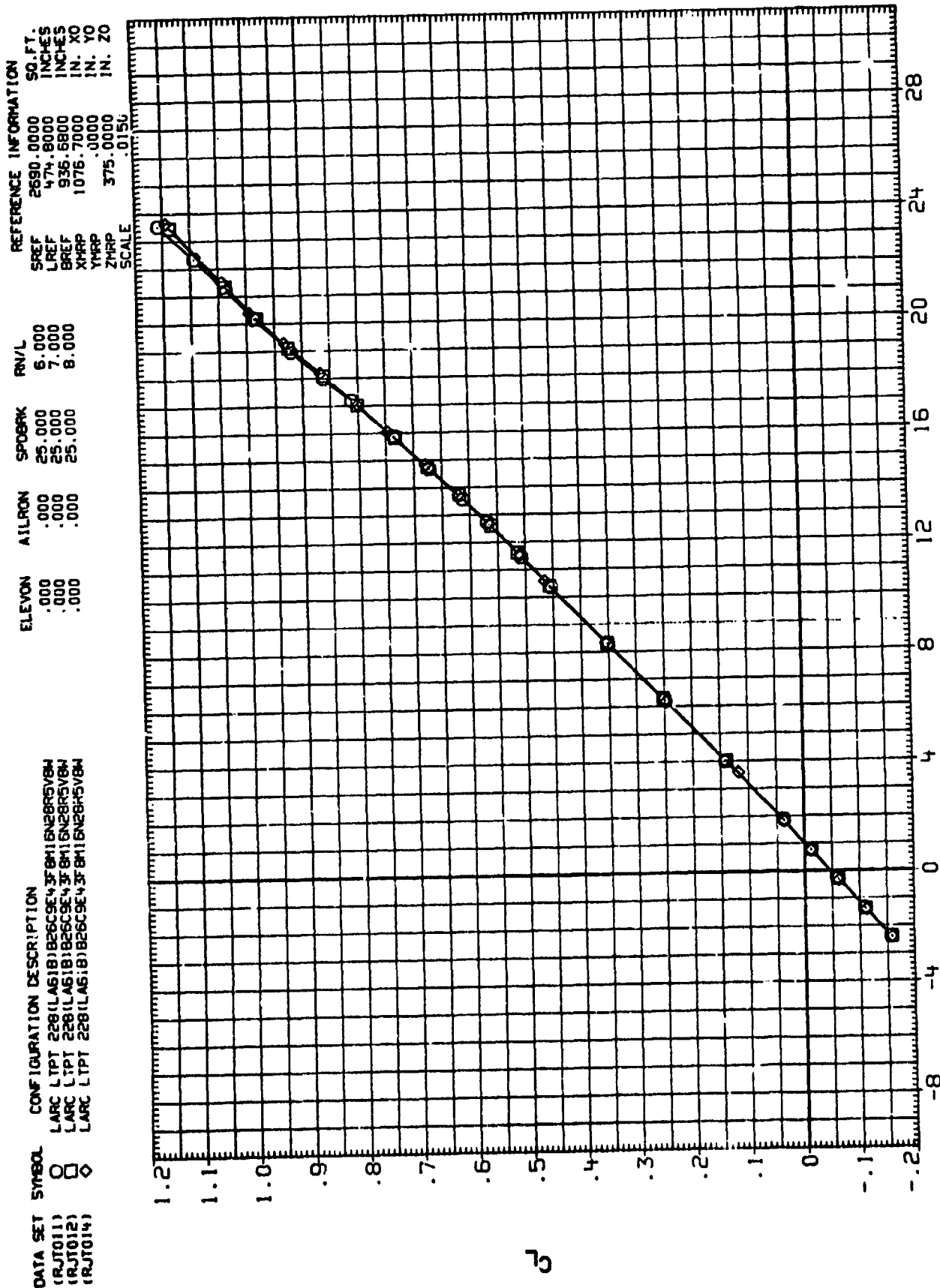


FIGURE 11(B). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS.
 CONTROL SURFACES AT 0 DEGREES, MACH= 0.30
 (A) MACH = .30
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DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	SPDBRK	RN/L	REFERENCE INFORMATION
(RJ1011)	○	LARC LTPT 228(LA51B)B26C9E4 3F8M16N28R5V8H	.000	.000	25.000	6.000	SREF 2690.0000 SQ.FT.
(RJ1012)	□	LARC LTPT 228(LA51B)B26C9E4 3F8M16N28R5V8H	.000	.000	25.000	7.000	LREF 474.8000 INCHES
(RJ1014)	◇	LARC LTPT 228(LA51B)B26C9E4 3F8M16N28R5V8H	.000	.000	25.000	8.000	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. XO
							ZMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

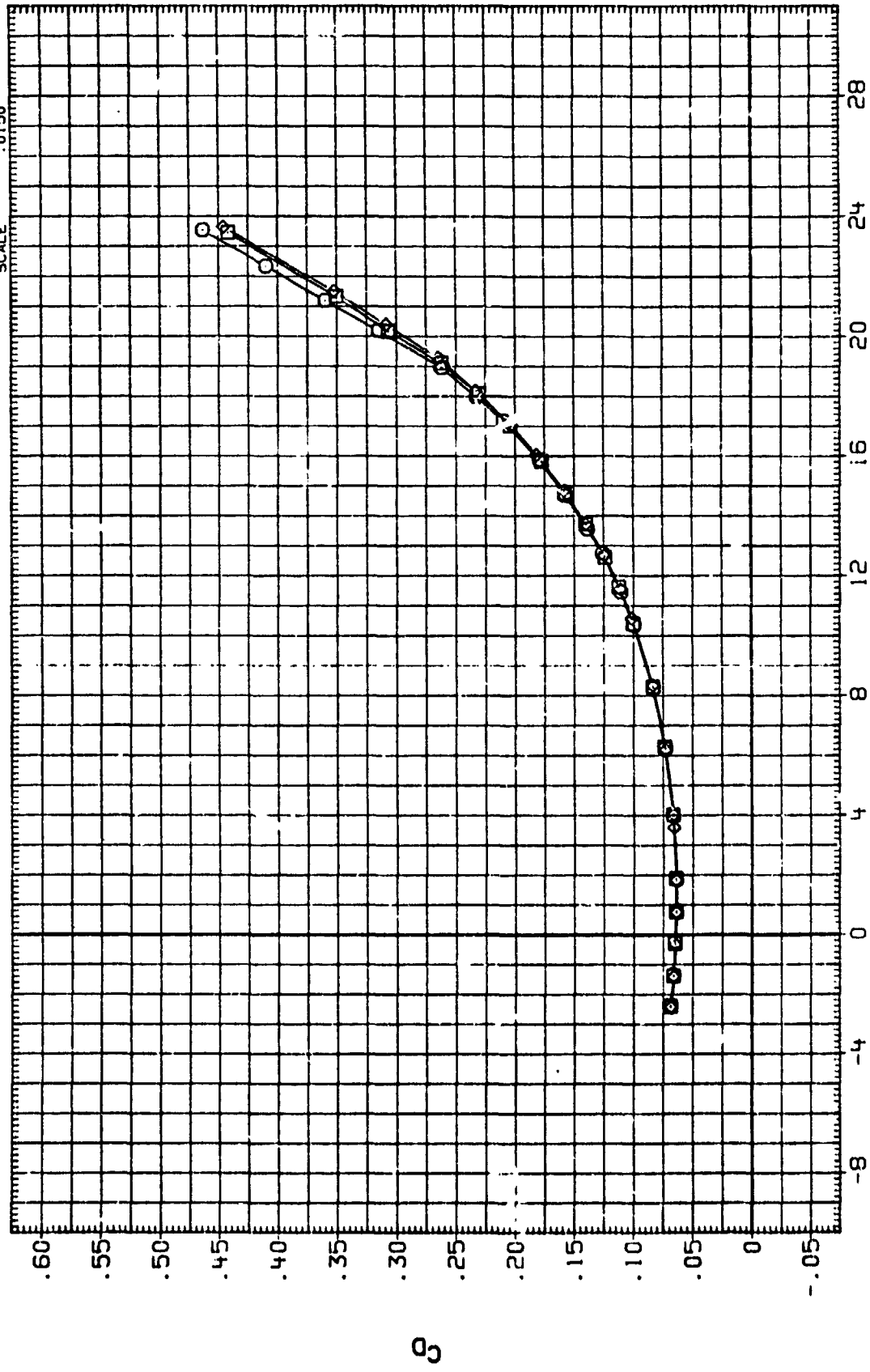


FIGURE 11(B) EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.30

DATA SET SYMBOL
(RJT011)
(RJT012)
(RJT014)

CONFIGURATION DESCRIPTION
1 ARC LTPT 228(LA518)B26C9E43F8M16N26R5V84
LARC LTPT 228(LA518)B26C9E43F8M16N26R5V84
LARC LTPT 228(LA518)B26C9E43F8M16N26R5V84

ELEVON
.000
.000
.000

AILRON
.000
.000
.000

SPOBRK
25.000
25.000
25.000

RN/L
6.000
7.000
8.000

REFERENCE INFORMATION
SREF 2690.0000 SQ. FT.
LREF 474.8000 INCHES
BREF 936.6800 INCHES
XMRP 1076.7000 IN. X0
YMRP .0000 IN. Y0
ZMRP 375.0000 IN. Z0
SCALE .0150

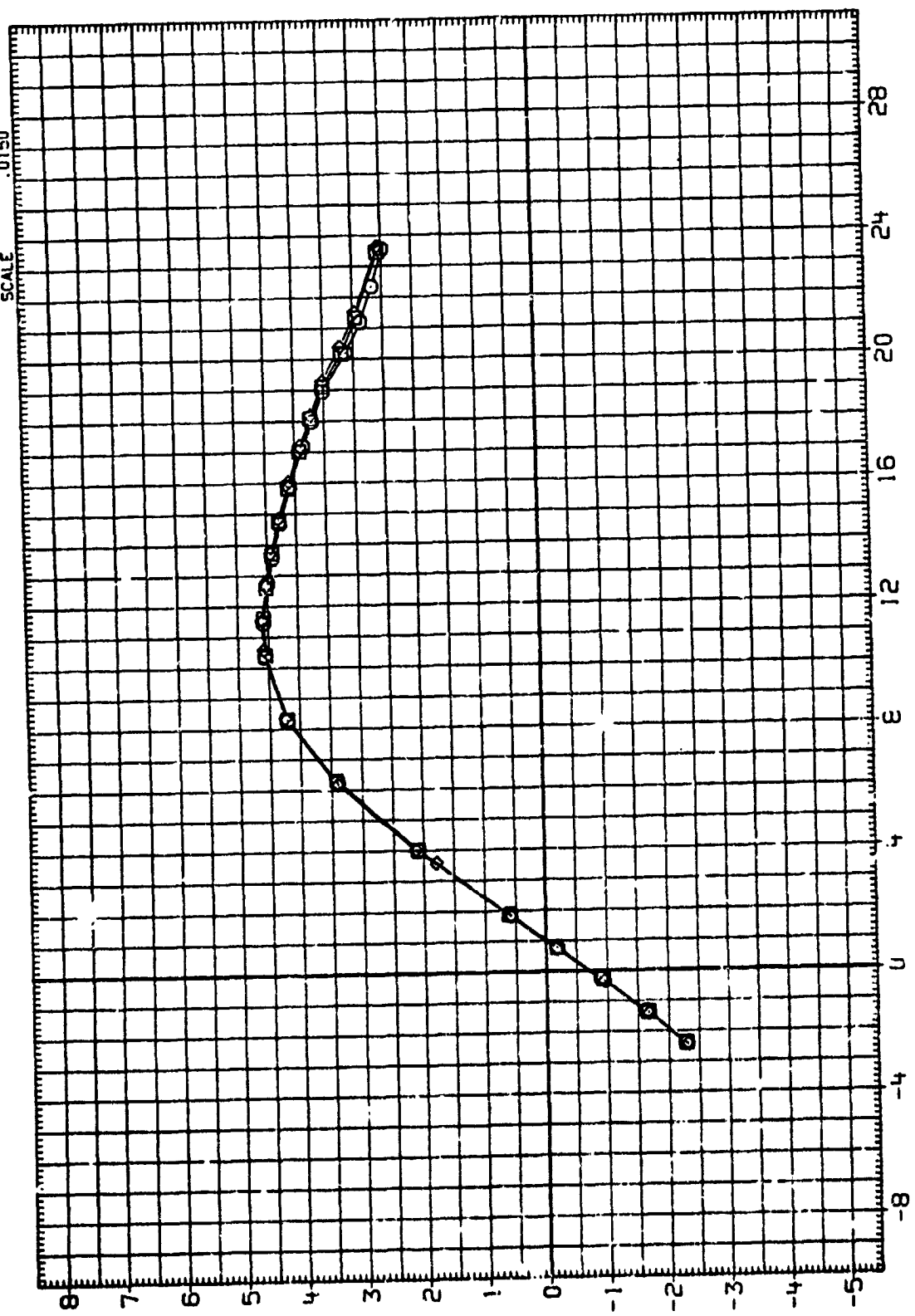


FIGURE 11(B). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS
CONTROL SURFACES AT 0 DEGREES, MACH= 0.30

(A) MACH = .30

DATA SET	SYMBOL	CONFIGURATION: DESCRIPTION	ELEVON	AILRON	SPDRBK	RN/L	REFERENCE INFORMATION
(RJ1011)	○	LARC L1PT 228(LA518)B26C3E4 3F8M16N28R5V84	.000	.000	25.000	6.000	SREF 2590.0000 50. FT.
(RJ1012)	○	LARC L1PT 228(LA518)B26C3E4 3F8M16N28R5V84	.000	.000	25.000	7.000	LREF 474.8000 INCHES
(RJ1014)	◇	LARC L1PT 228(LA518)B26C3E4 3F8M16N28R5V84	.000	.000	25.000	8.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

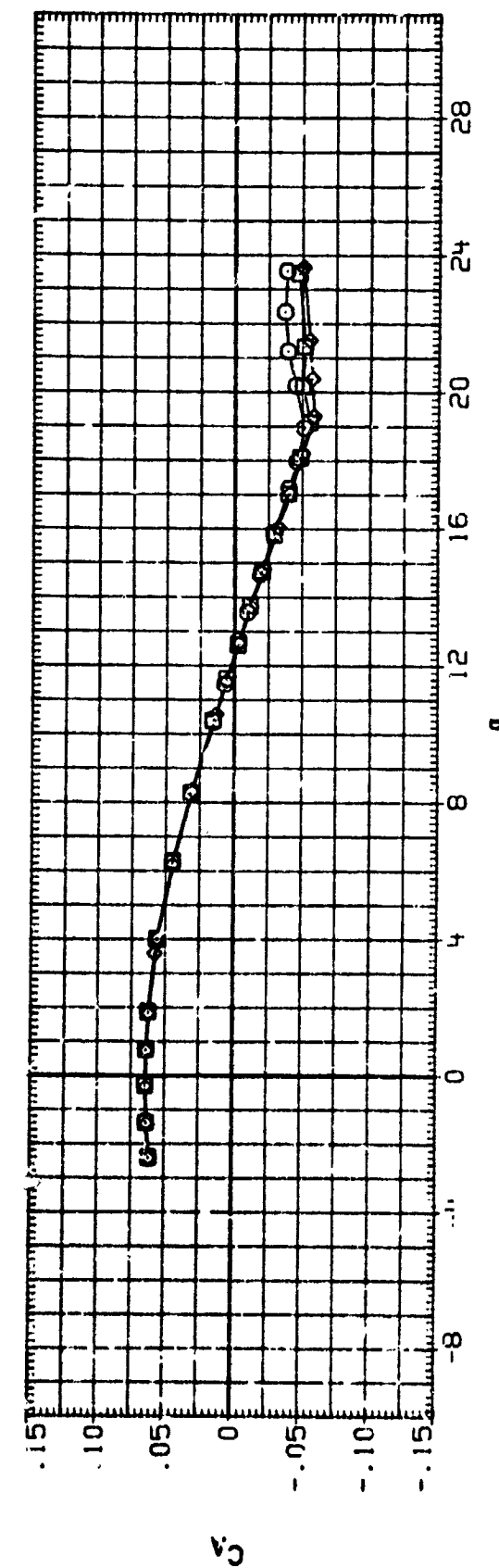
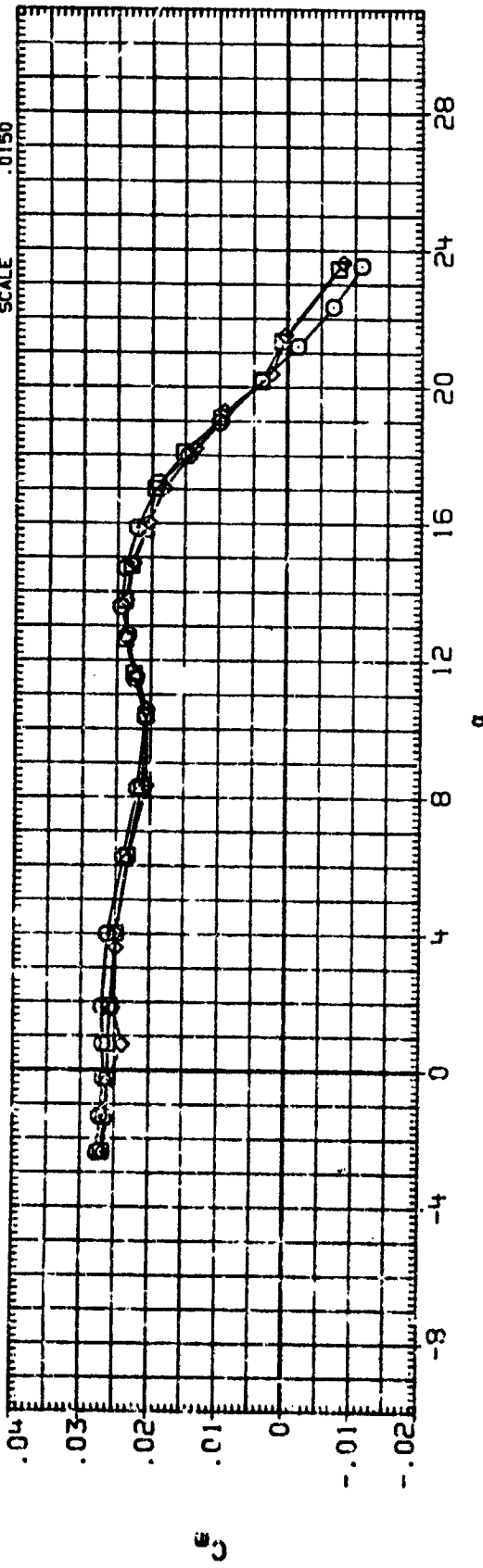


FIGURE 11(b). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	SPDBRK	RN/L	REFERENCE INFORMATION
(RJT011)	○	LARC LPT 228(LA618)B26C9E43F8M16N28R5V8H	.000	.000	25.000	6.000	SREF 2690.0000 SQ.FT.
(RJT012)	◇	LARC LPT 228(LA618)B26C9E43F8M16N28R5V8H	.000	.000	25.000	7.000	LREF 474.8000 INCHES
(RJT014)	◇	LARC LPT 228(LA618)B26C9E43F8M16N28R5V8H	.000	.000	25.000	8.000	BREF 936.6800 INCHES
							XHRP 1076.7000 IN. XO
							YHCP .0000 IN. YO
							ZHRP 375.0000 IN. ZO
							SCALE .0150

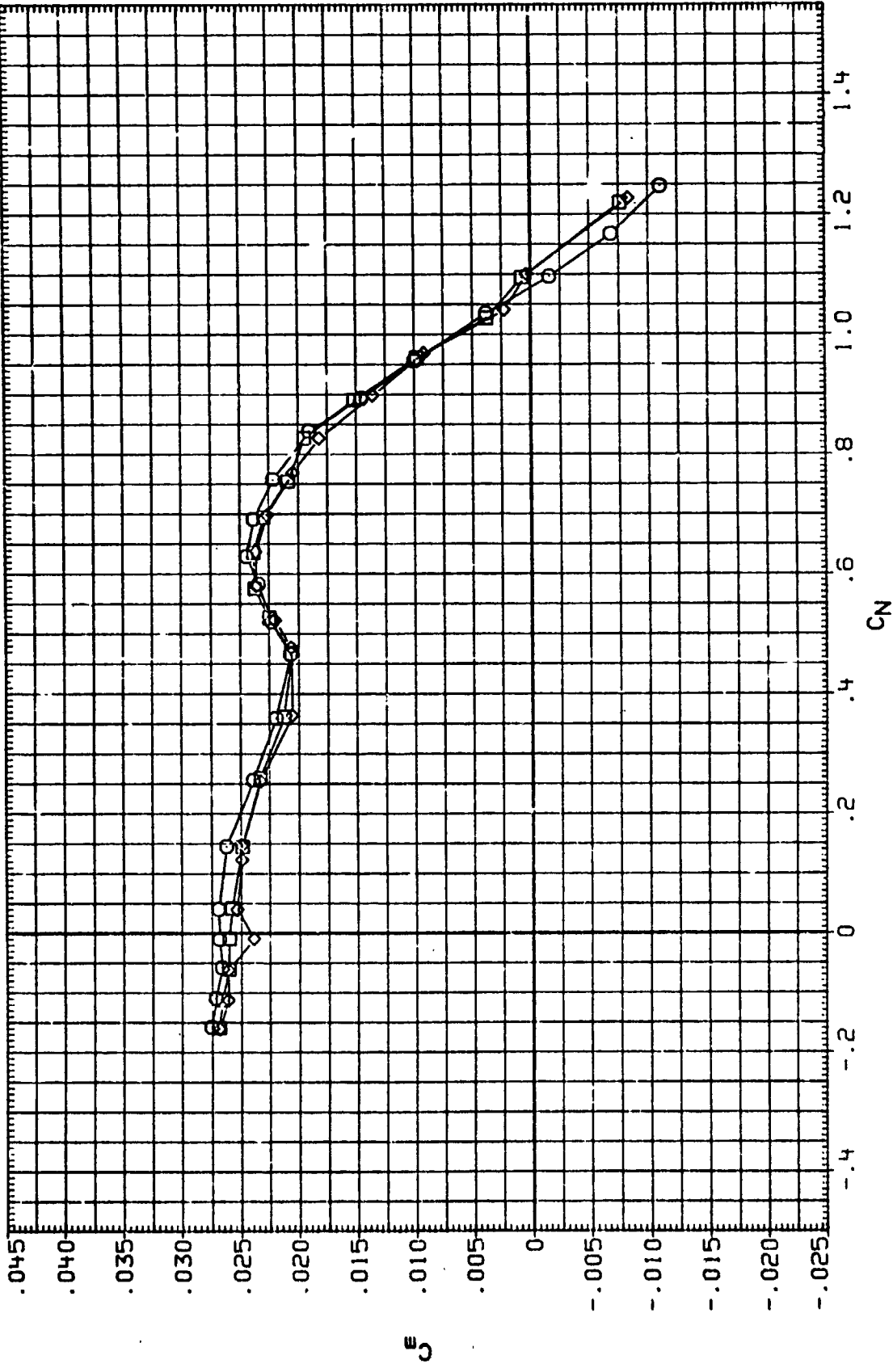


FIGURE 11(B). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.30

(A) MACH = .30

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	SPDRK	RN/L	REFERENCE INFORMATION
(RJ1011)	LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8W	.000	.000	25.000	5.000	SREF 2690.0000 SQ.FT.
(RJ1012)	LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8W	.000	.000	25.000	7.000	LREF 474.8000 INCHES
(RJ1014)	LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8W	.000	.000	25.000	8.000	BREF 936.6800 INCHES
						XMRP 1076.7000 IN. XO
						YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

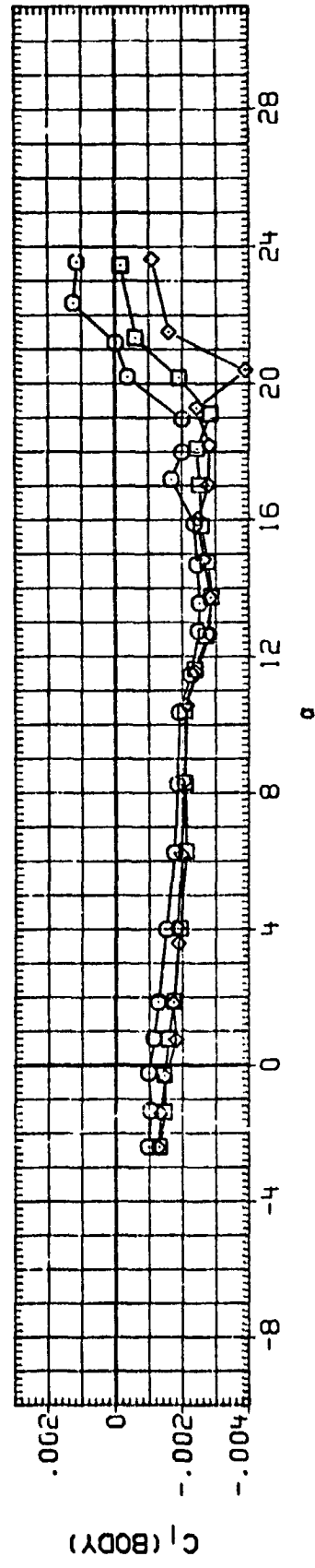
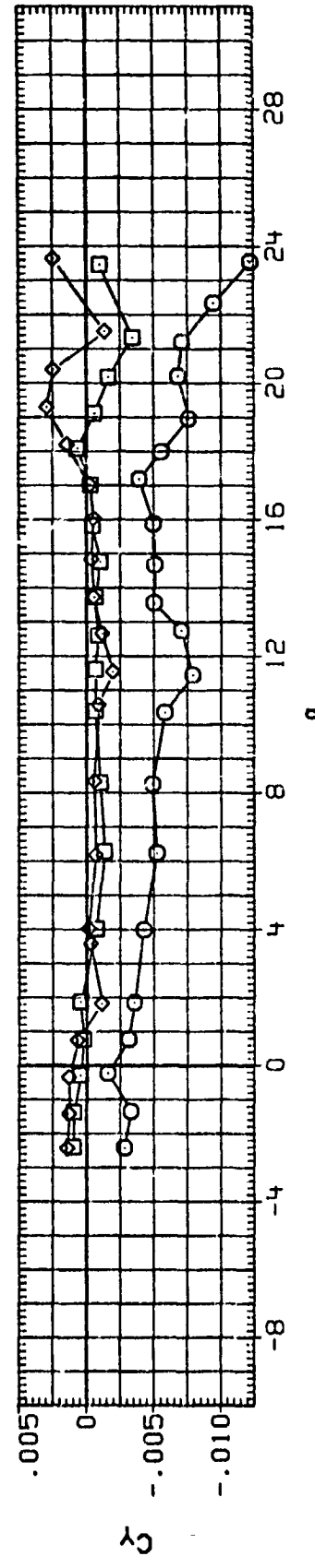
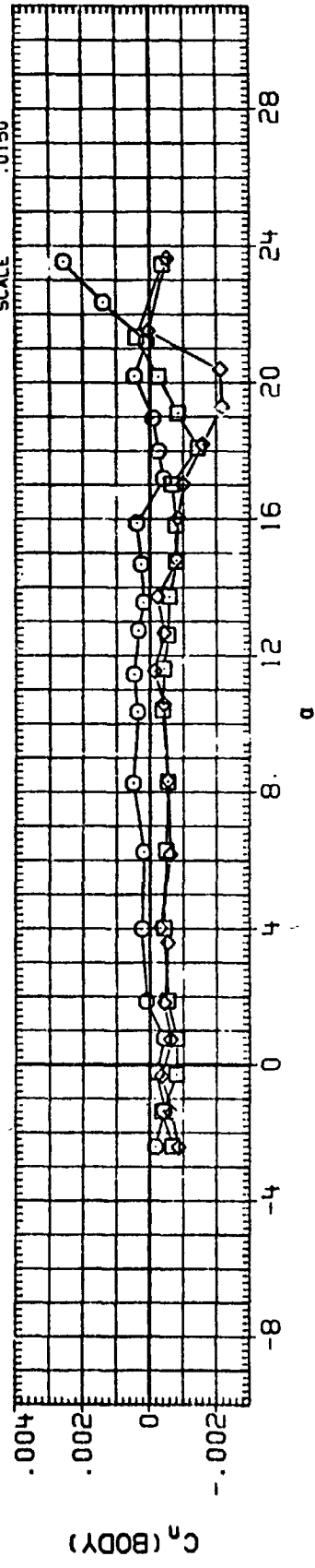


FIGURE 11(B). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS, CONTROL SURFACES AT 0 DEGREES, MACH= 0.30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	SPDRK	RN/L	REFERENCE INFORMATION
(SJT011)	○	LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8H	.000	.000	25.000	6.000	SREF 2690.0000 SQ.FT.
(SJT012)	□	LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8H	.000	.000	25.000	7.000	LREF 474.8000 INCHES
(SJT014)	◇	LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8H	.000	.000	25.000	8.000	BREF 936.6800 INCHES
							XHRP 1076.7000 IN. X0
							YHRP .0000 IN. Y0
							ZHRP 375.0000 IN. Z0
							SCALE .0150

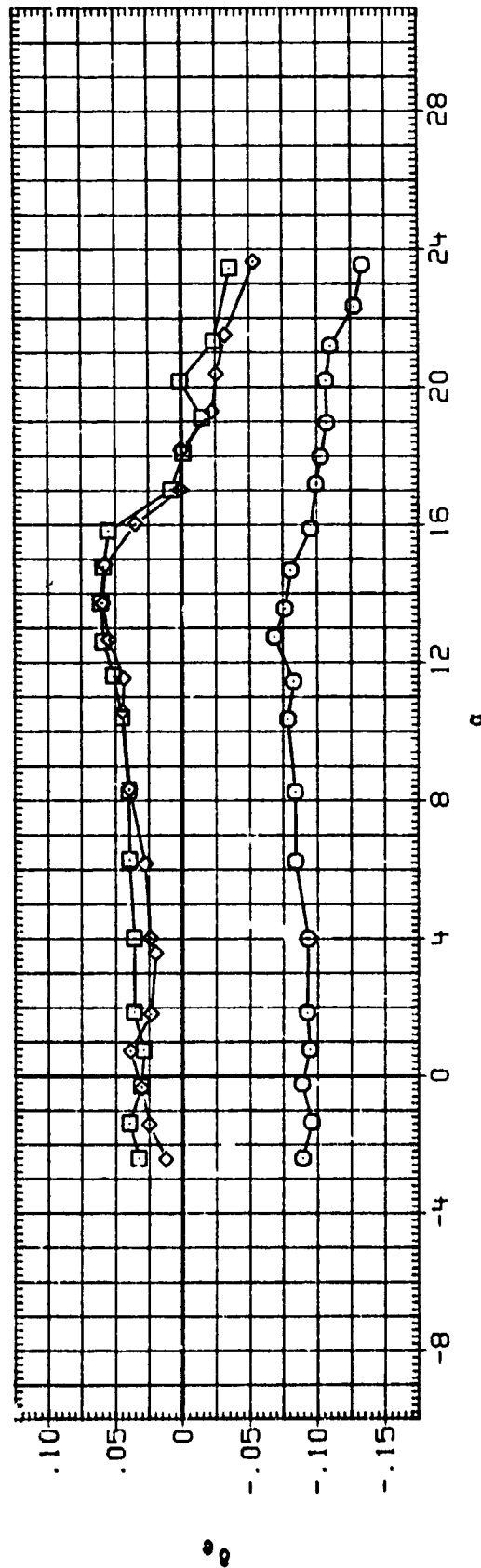
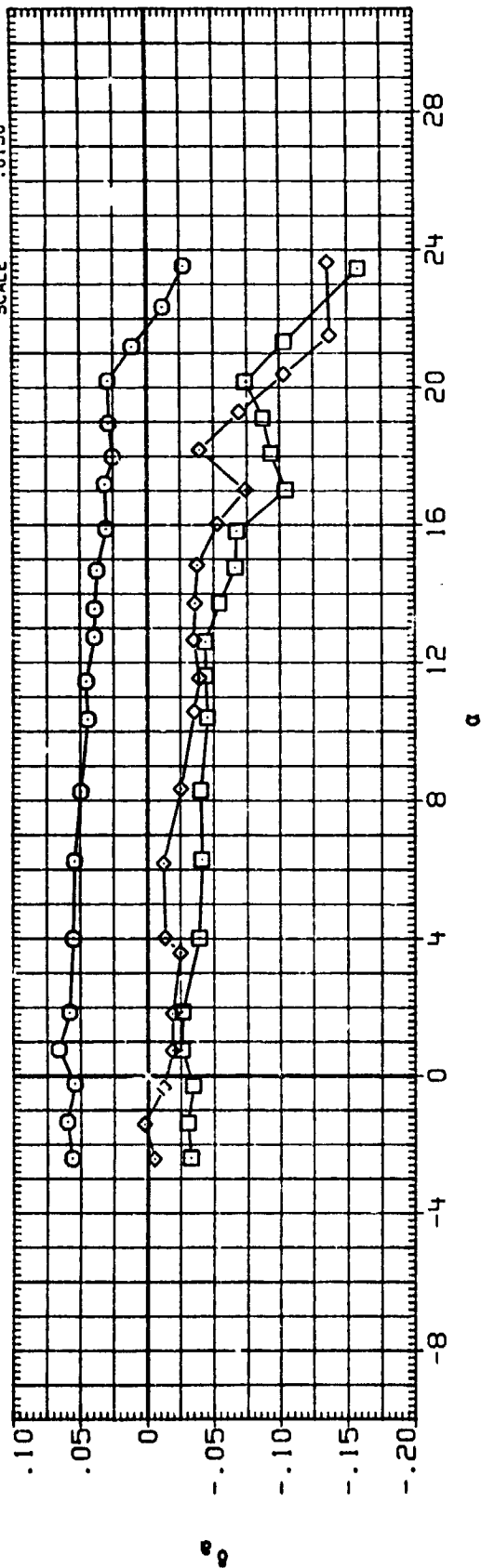


FIGURE 11(B). EFFECT OF REYNOLDS NUMBER ON ORBITER AERODYNAMIC CHARACTERISTICS.
CONTROL SURFACES AT 0 DEGREES, MACH= 0.30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	SPDRBK	REFERENCE INFORMATION
(RJ035)	○	LARC LTPT 228(LA618)B26C9E43FBM16N28R5VBW	-10.000	.000	25.000	SREF 2690.0000 SQ.FT.
(RJ034)	□	LARC LTPT 228(LA618)B26C9E43FBM16N28R5VBW	-5.000	.000	25.000	LREF 474.8000 INCHES
(RJ021)	◇	LARC LTPT 228(LA618)B26C9E43FBM16N28R5VBW	.000	.000	25.000	BREF 936.6800 INCHES
(RJ033)	△	LARC LTPT 228(LA618)B26C9E43FBM16N28R5VBW	5.000	.000	25.000	XMRP 1076.7000 IN. XO
(RJ032)	▽	LARC LTPT 228(LA618)B26C9E43FBM16N28R5VBW	10.000	.000	25.000	YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO

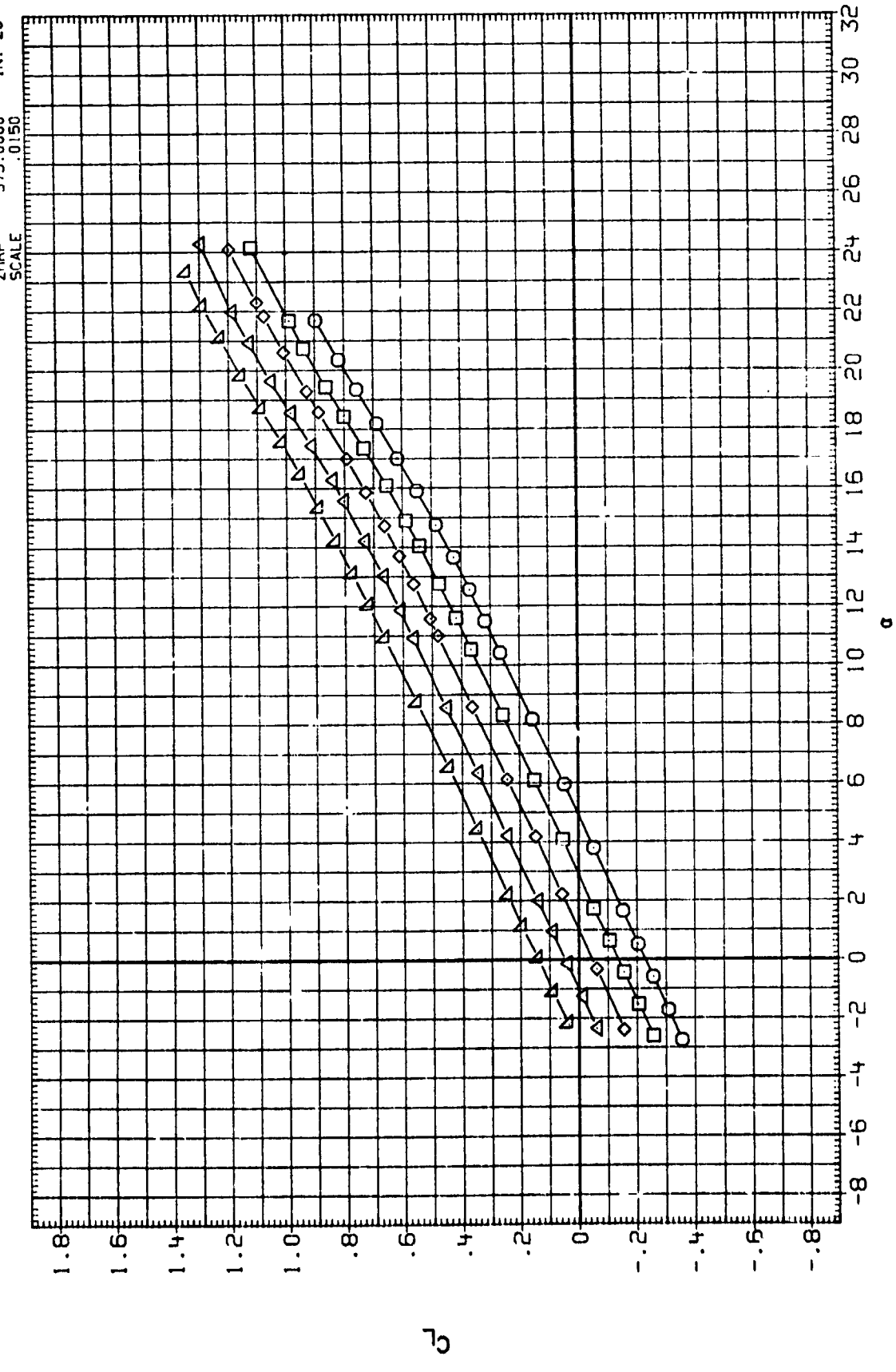


FIGURE 12. EFFECT OF ELEVON DEFLECTION ON ORBITER AERODYNAMIC CHARACTERISTICS, $RN/L = 12.5$, $MACH = 0.20$

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	SPUBRK	REFERENCE INFORMATION
(RJ1035)	○	LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8M	-10.000	.000	25.000	SREF 2690.0000 SQ. FT.
(RJ1034)	□	LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8M	-5.000	.000	25.000	LREF 474.8000 INCHES
(RJ1021)	◇	LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8M	.000	.000	25.000	BREF 936.6800 INCHES
(RJ1033)	△	LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8M	5.000	.000	25.000	XMRP 1076.7000 IN. XO
(RJ1032)	▽	LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8M	10.000	.000	25.000	YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

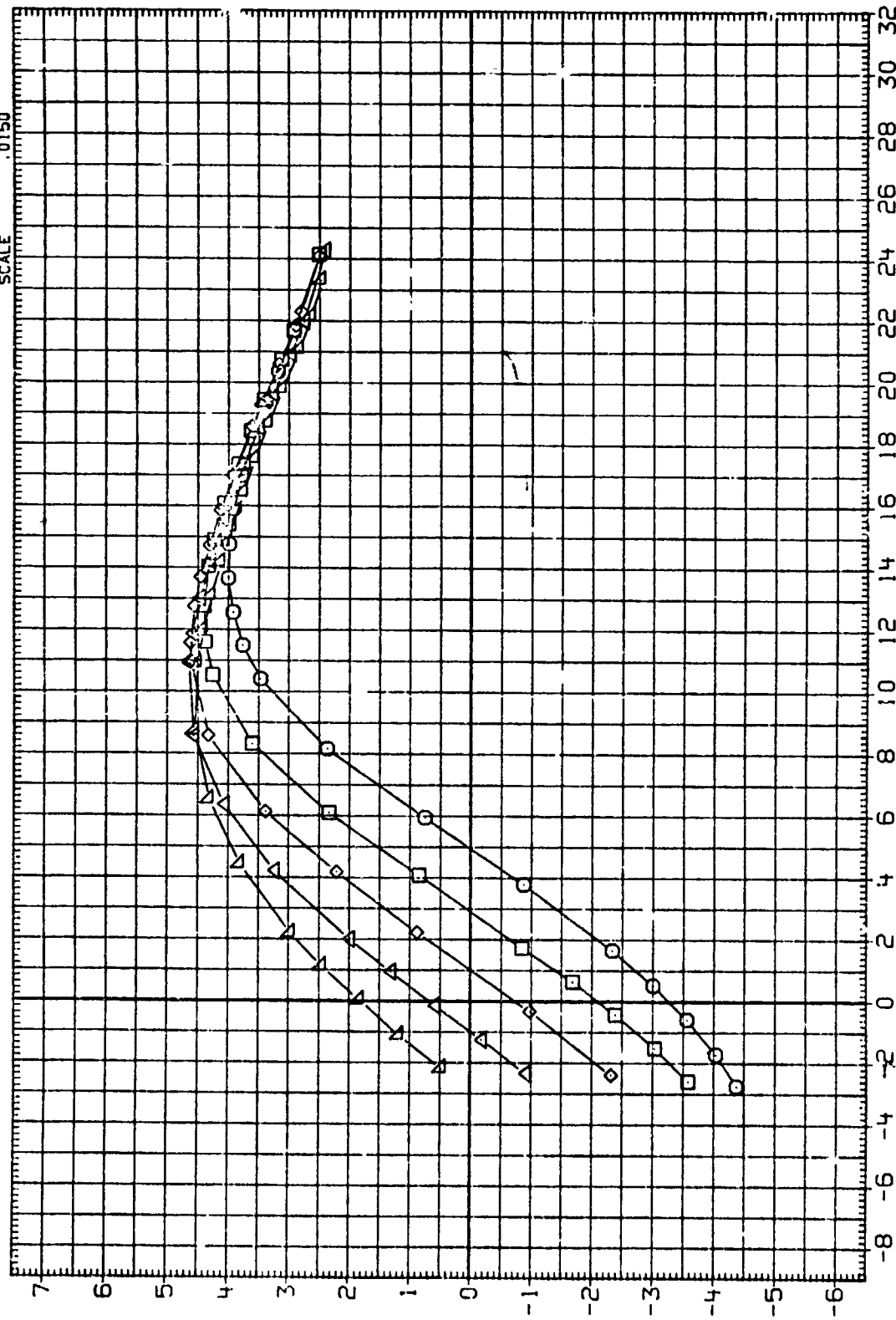


FIGURE 12. EFFECT OF ELEVON DEFLECTION ON ORBITER AERODYNAMIC CHARACTERISTICS.
 $RN/L = 12.5$; $MACH = 0.20$

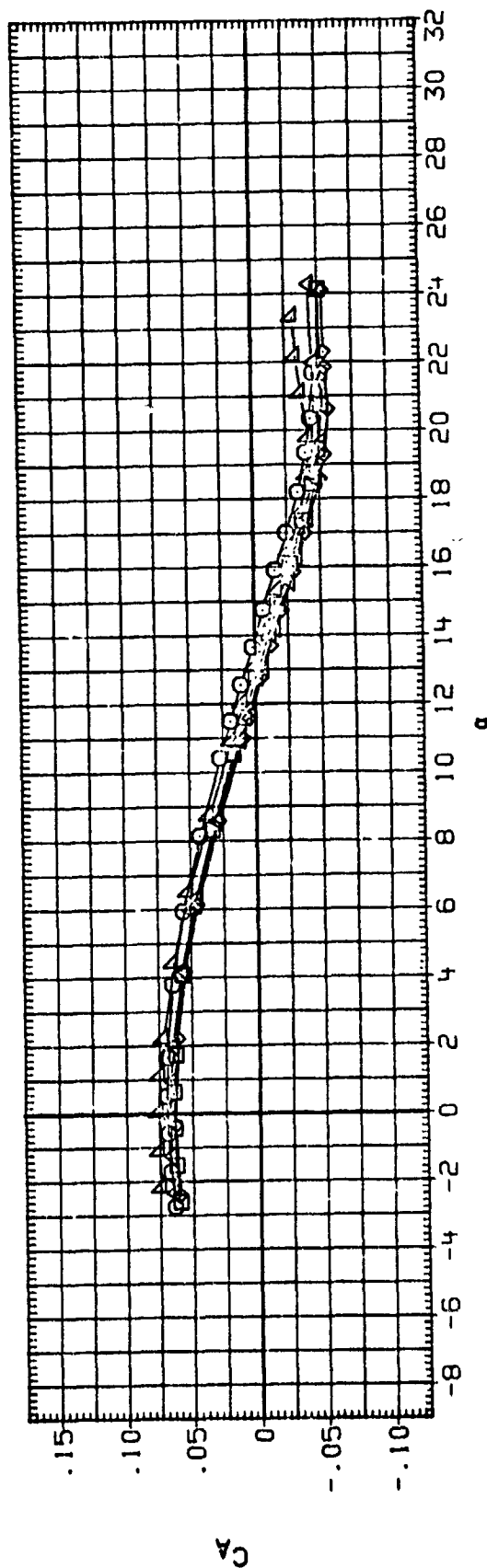
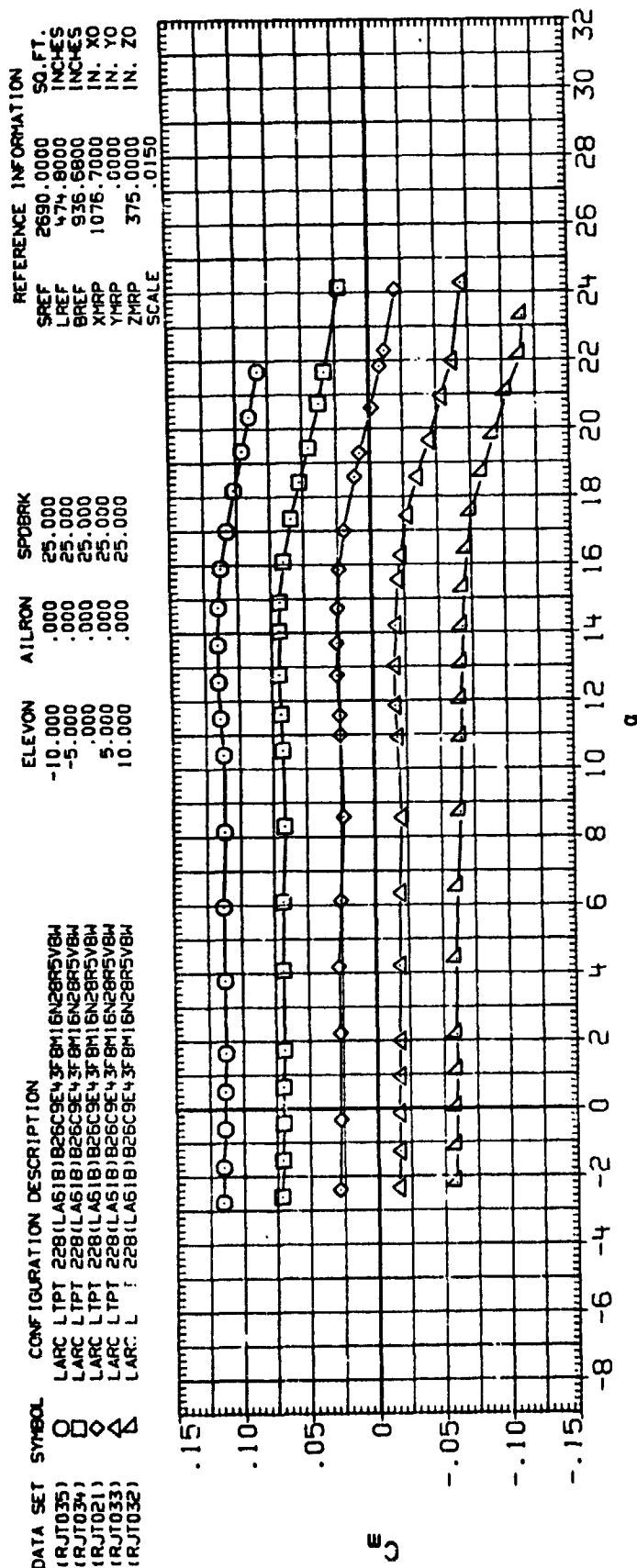


FIGURE 12. EFFECT OF ELEVON DEFLECTION ON ORBITER AERODYNAMIC CHARACTERISTICS.
 RN/L= 12.5, MACH= 0.20

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	SPOBRK	REFERENCE INFORMATION	SO.FT.
(RJ035)	○	LARC LPT 228(LA618)B26C9E43F8M16N28R5V8M	-10.000	.000	25.000	SREF	2690.0000
(RJ034)	□	LARC LPT 228(LA618)B26C9E43F8M16N28R5V8M	-5.000	.000	25.000	LREF	474.8000
(RJ021)	◇	LARC LPT 228(LA618)B26C9E43F8M16N28R5V8M	.000	.000	25.000	BREF	936.6800
(RJ033)	△	LARC LPT 228(LA618)B26C9E43F8M16N28R5V8M	5.000	.000	25.000	XMRP	1076.7000
(RJ032)	△	LARC LPT 228(LA618)B26C9E43F8M16N28R5V8M	10.000	.000	25.000	YMRP	.0000
						ZMRP	375.0000
						SCALE	.0150

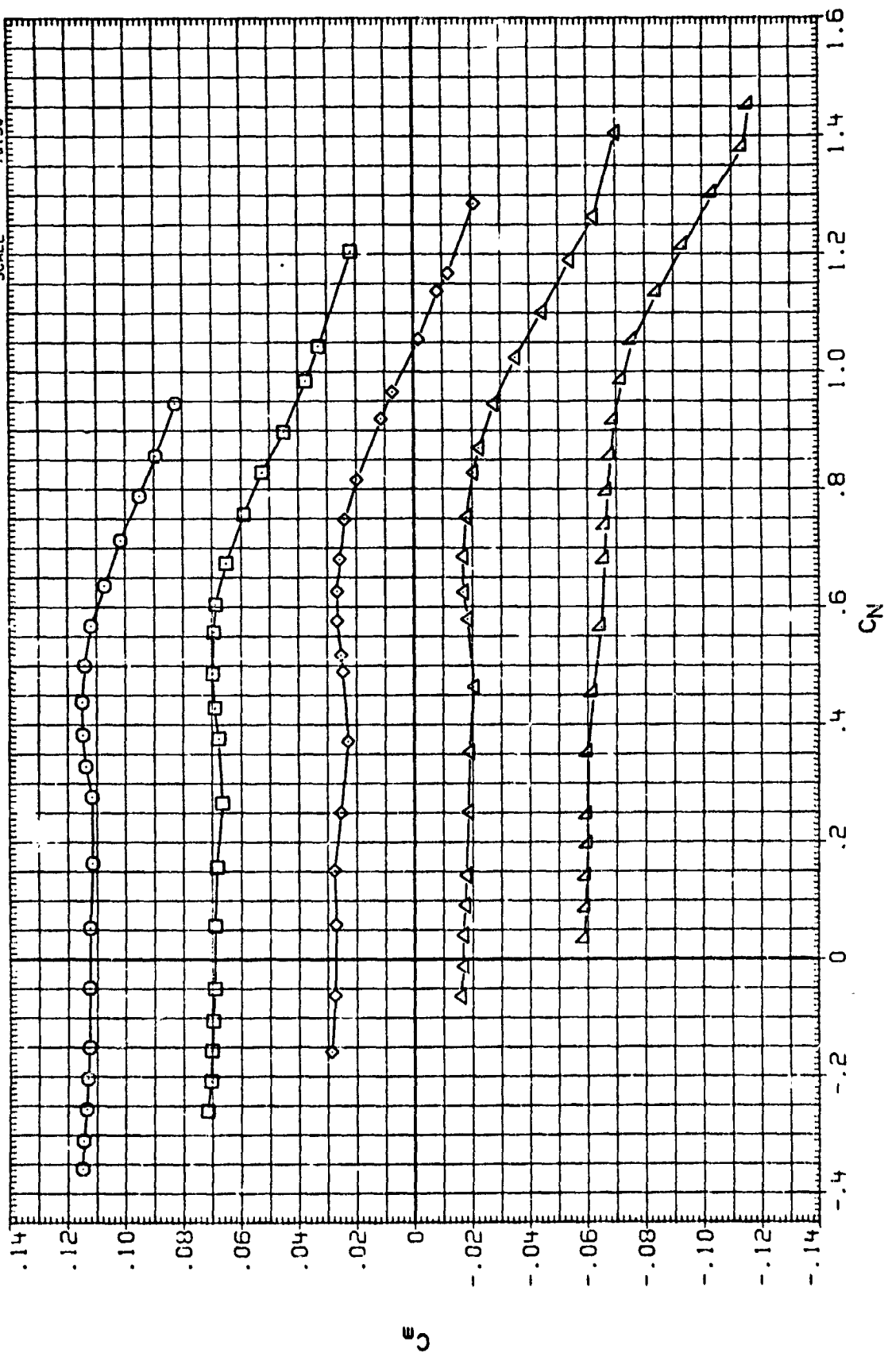


FIGURE 12. EFFECT OF ELEVON DEFLECTION ON ORBITER AERODYNAMIC CHARACTERISTICS.
 (A) MACH = .20
 RN/L = 12.5, MACH = 0.20

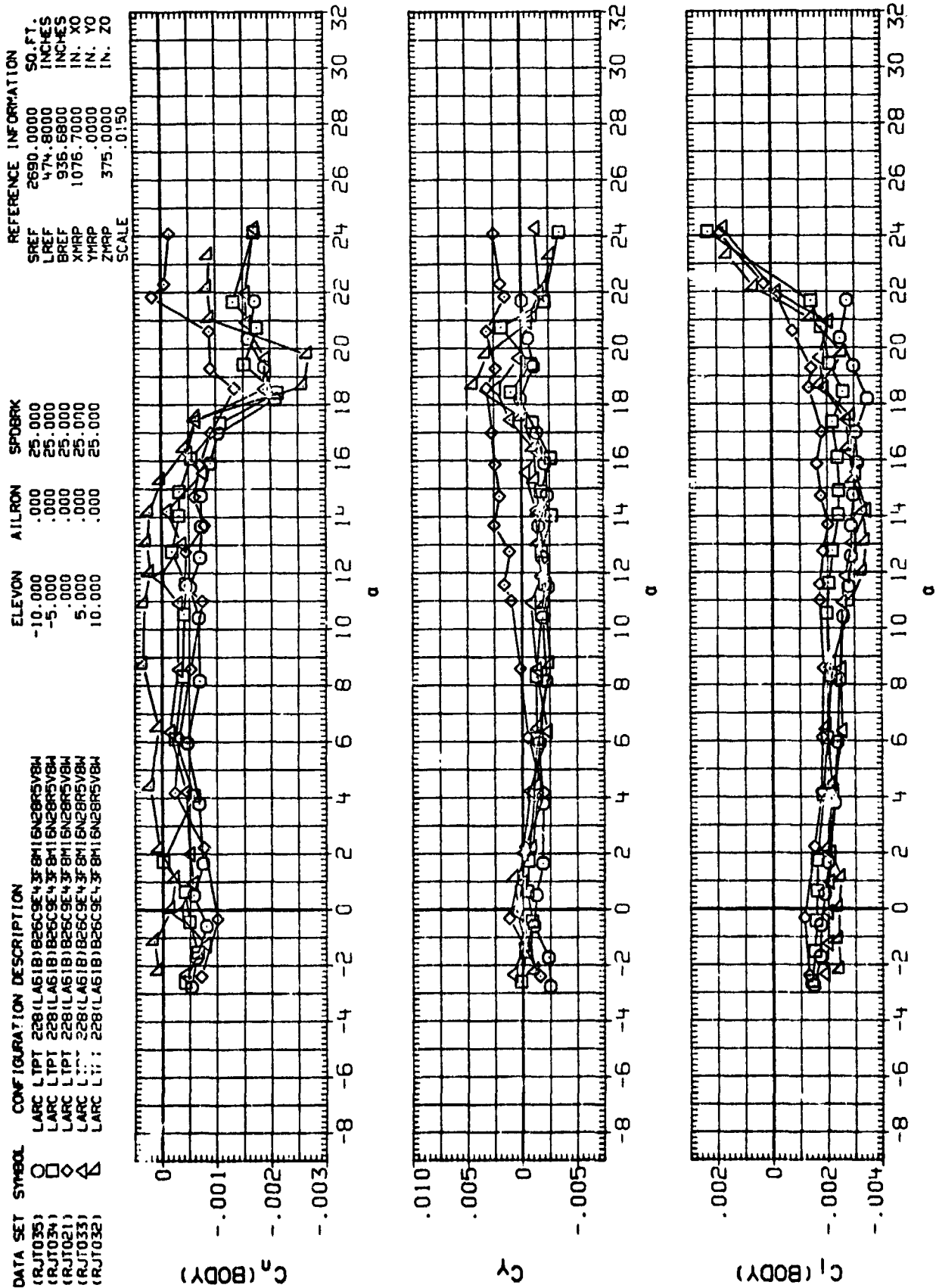


FIGURE 12. EFFECT OF ELEVON DEFLECTION ON ORBITER AERODYNAMIC CHARACTERISTICS,
RN/L = 12.5, MACH = 0.20

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	SPDBRK	REFERENCE INFORMATION
(SJT035)	○	LARC LTPT 228(LA618)B26C9E4 3F 8M16N28R5V8M	-10.000	.000	25.000	SREF 2690.0000 SQ.FT.
(SJT034)	◇	LARC LTPT 228(LA618)B26C9E4 3F 8M16N28R5V8M	-5.000	.000	25.000	LREF 474.8000 INCHES
(SJT021)	△	LARC LTPT 228(LA618)B26C9E4 3F 8M16N28R5V8M	.000	.000	25.000	BREF 936.6800 INCHES
(SJT033)	▽	LARC LTPT 228(LA618)B26C9E4 3F 8M16N28R5V8M	5.000	.000	25.000	YMRP 1076.7000 IN. X0
(SJT032)	□	LARC LTPT 228(LA618)B26C9E4 3F 8M16N28R5V8M	10.000	.000	25.000	ZMRP .0000 IN. Y0
						SCALE .0150

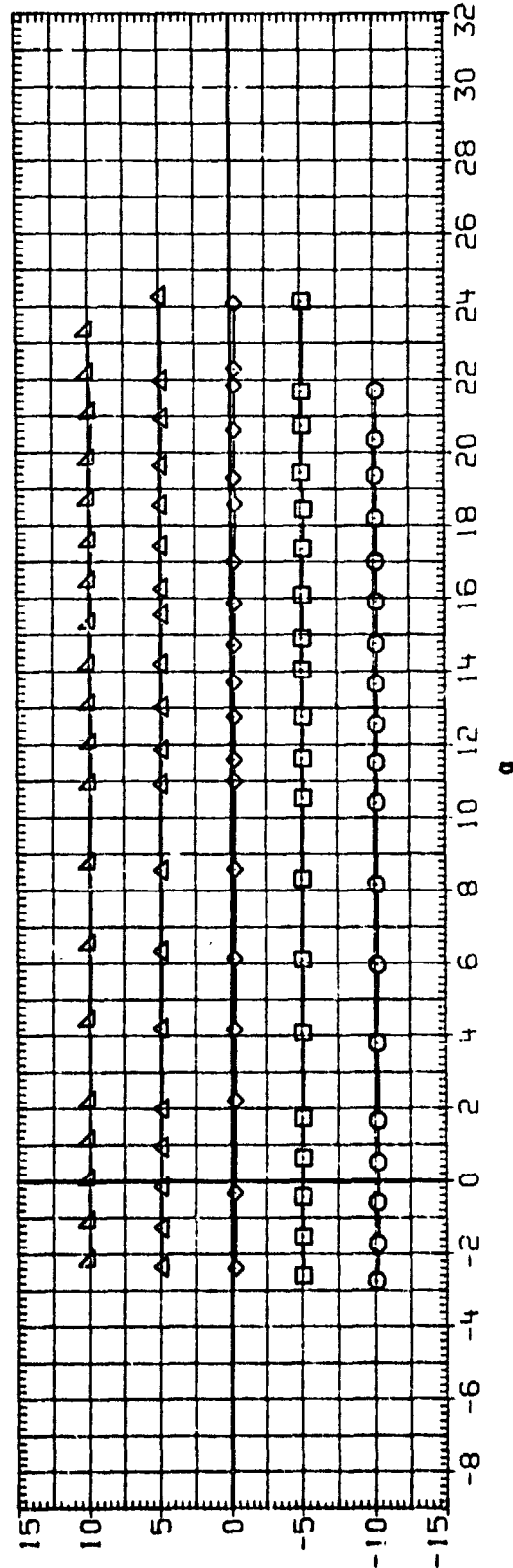
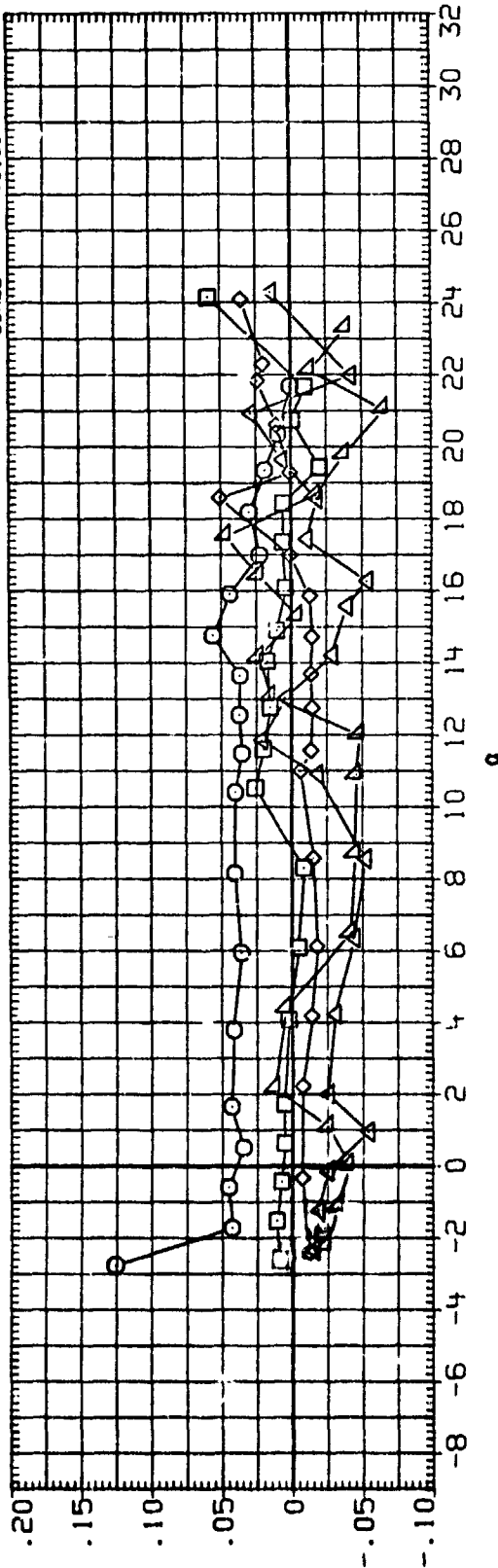


FIGURE 12. EFFECT OF ELEVON DEFLECTION ON ORBITER AERODYNAMIC CHARACTERISTICS.
RN/L = 12.5, MACH = 0.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	AIRLON	SPOBRK	RN/L	REFERENCE INFORMATION
(RJ052)	○	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8M	.000	.000	25.000	12.500	SREF 2690.0000 SQ. FT.
(RJ053)	□	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8M	6.000	.030	25.000	12.500	LREF 474.8000 INCHES
(RJ054)	△	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8M	13.000	.000	25.000	12.500	BREF 936.6800 INCHES
(RJ055)	△	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8M	19.000	.000	25.000	12.500	XHRP 1076.7000 IN. XO
							YHRP .0000 IN. YO
							ZHRP 375.0000 IN. ZO
							SCALE .0150

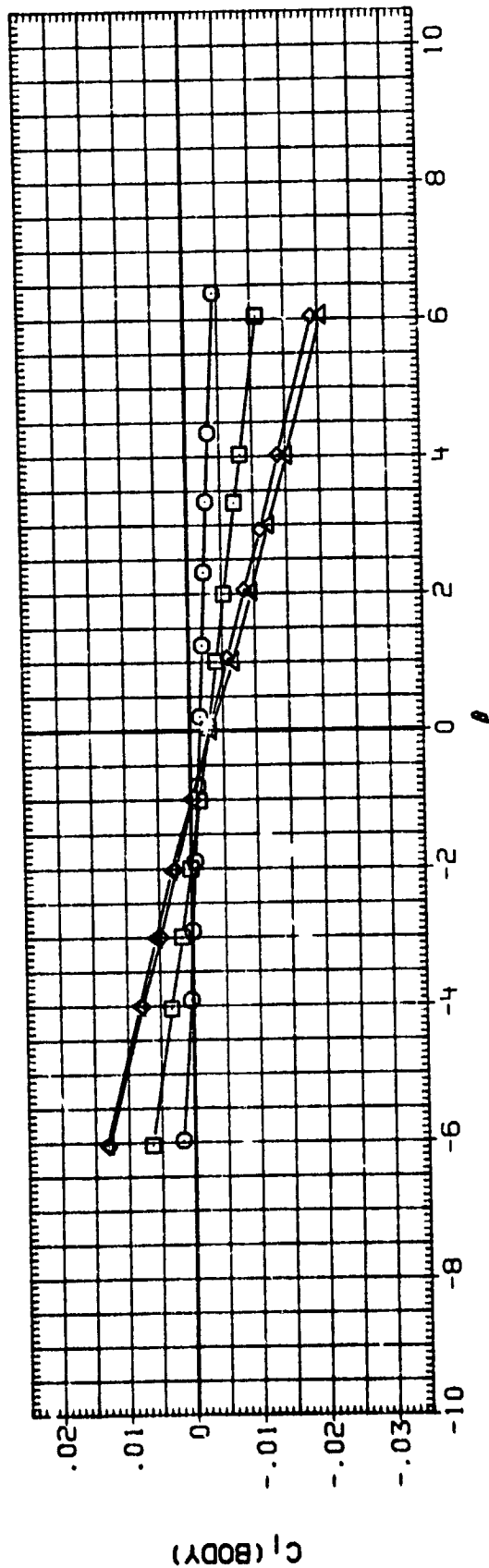
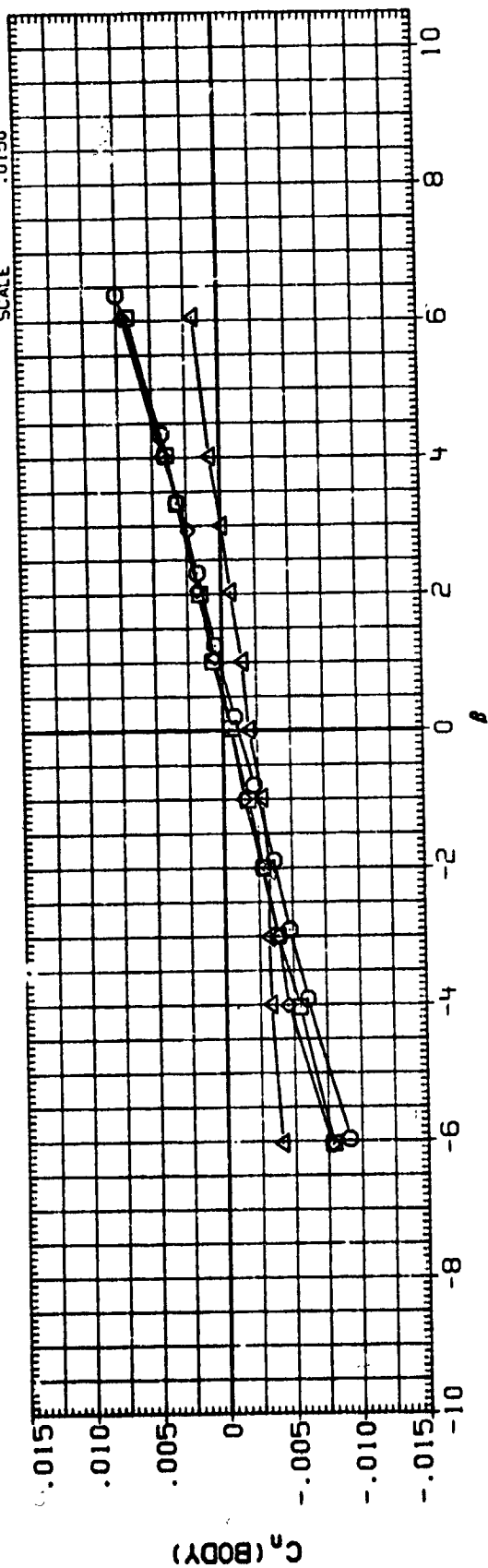


FIGURE 13. ORBITER LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS,
ELEVON= -10 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	AIRLON	SPDRK	RN/L	REFERENCE INFORMATION
(RJ1052)	□	LARC L1PT 228(LA618)B26C9E43F8M16N28R5VB4	.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(RJ1053)	□	LARC L1PT 228(LA618)B26C9E43F8M16N28R5VB4	6.000	.000	25.000	12.500	LREF 474.8000 INCHES
(RJ1054)	△	LARC L1PT 228(LA618)B26C9E43F8M16N28R5VB4	13.000	.000	25.000	12.500	BREF 936.6800 INCHES
(RJ1055)	△	LARC L1PT 228(LA618)B26C9E43F8M16N28R5VB4	19.000	.000	25.000	12.500	XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

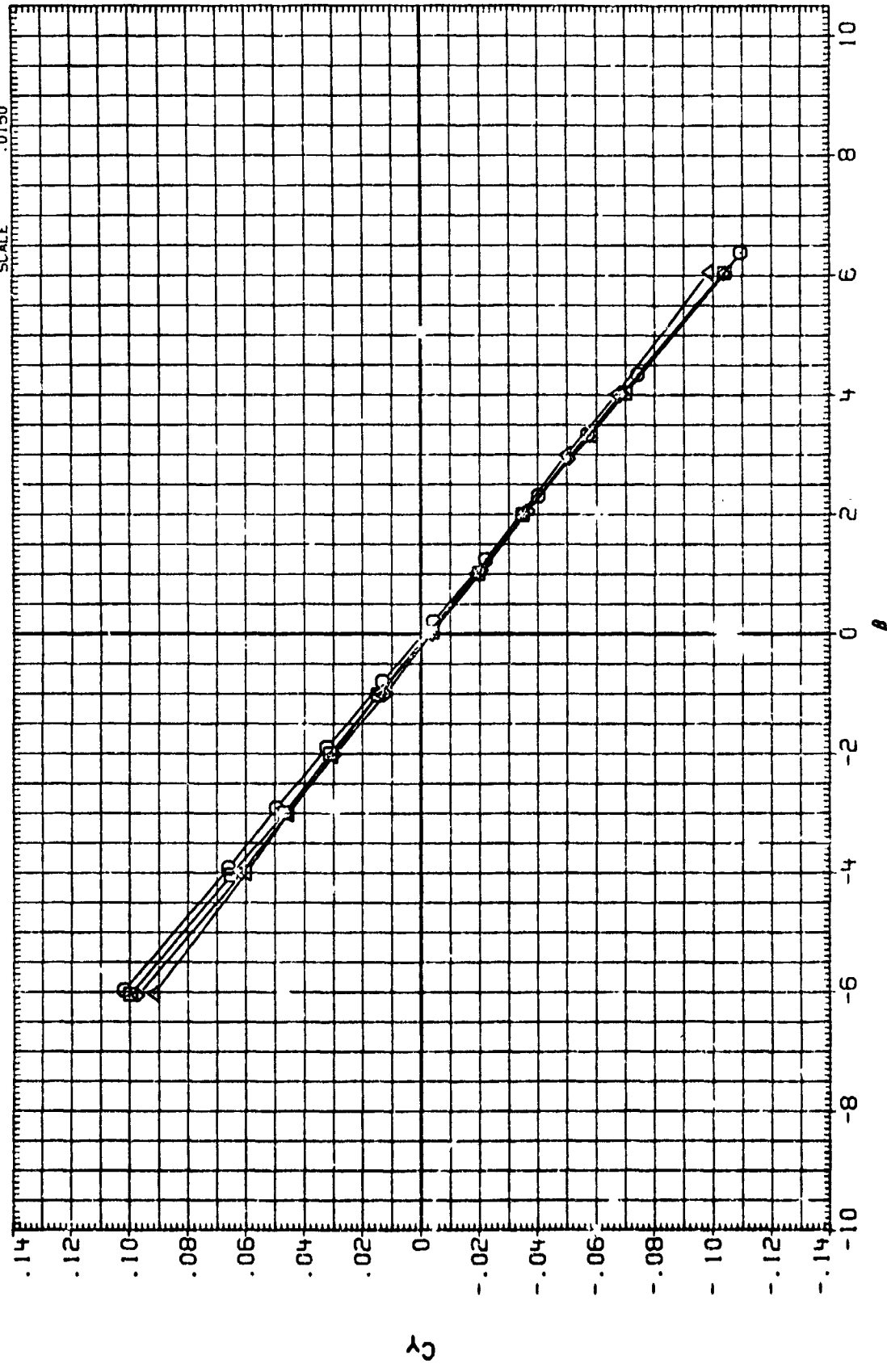


FIGURE 13. ORBITER LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS,
ELEVON = -10 DEGREES

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	AILRON	SPDRBK	RN/L	REFERENCE INFORMATION
(SJT052)	○	LARC LTPT 228(LA618)B26CSE43F8M1817 385V8H	.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(SJT053)	□	LARC LTPT 228(LA618)B26CSE43F8M1817 385V8H	6.000	.000	25.000	12.500	LREF 474.8000 INCHES
(SJT054)	◇	LARC LTPT 228(LA618)B26CSE43F8M1817 385V8H	13.000	.000	25.000	12.500	BREF 936.6800 INCHES
(SJT055)	△	LARC LTPT 228(LA618)B26CSE43F8M1817 385V8H	19.000	.000	25.000	12.500	XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE 0.150

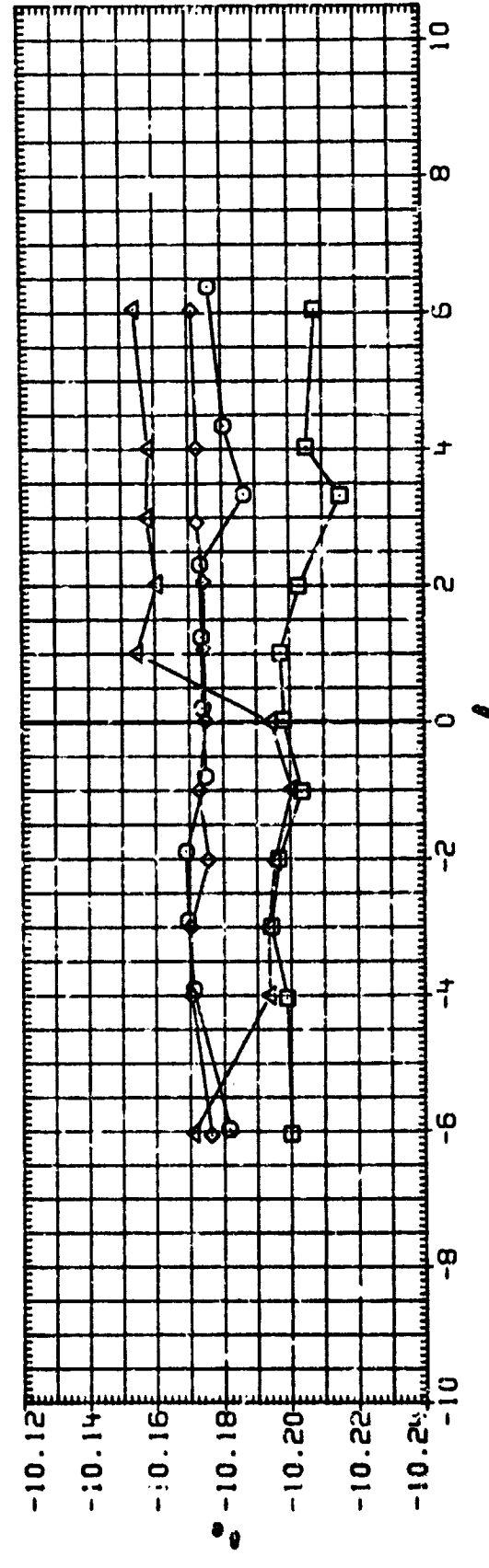
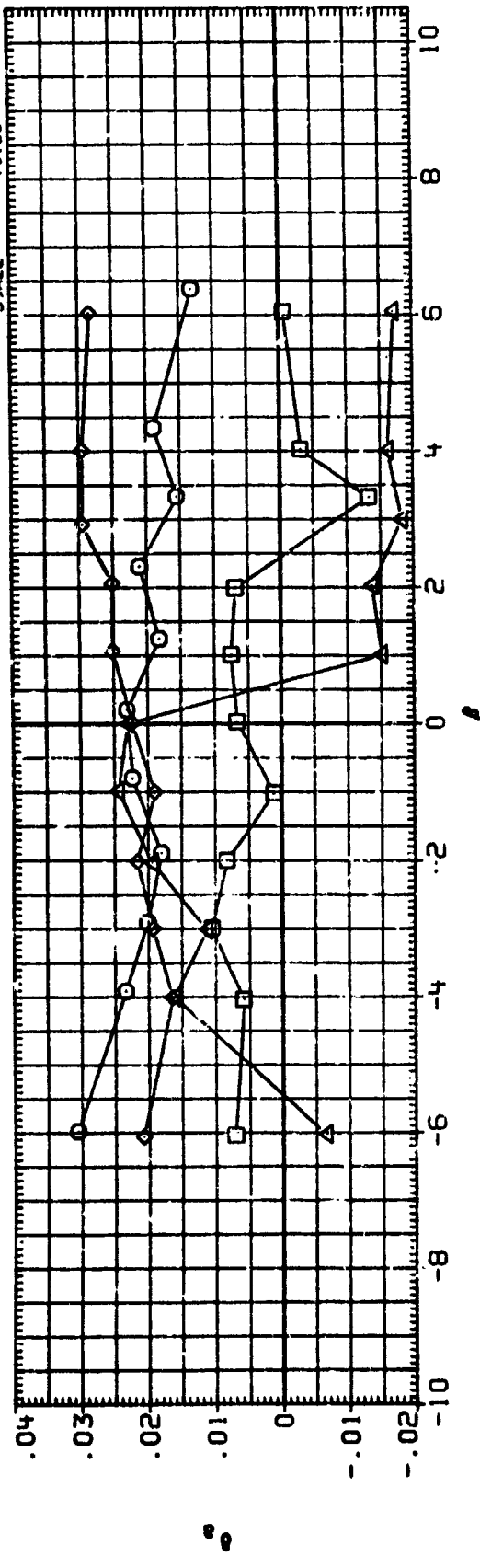


FIGURE 13. ORBITER LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS, ELEVON= -10 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	AIRLON	SPDRK	RN/L	REFERENCE INFORMATION
(RJ1045)	○	LARC LTPT 228(LA518)265CE4 3781164285V84	.000	.000	25.000	12.500	SREF 2690.0000 SO.FT.
(RJ1046)	□	LARC LTPT 228(LA518)265CE4 3781164285V84	6.000	.000	25.000	12.500	LREF 474.8000 INCHES
(RJ1047)	◇	LARC LTPT 228(LA518)265CE4 3781164285V84	13.000	.000	25.000	12.500	BREF 936.6800 INCHES
(RJ1050)	△	DATA NOT AVAILABLE	19.000	.000	25.000	10.000	XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 373.0000 IN. Z0
							SCALE .0150

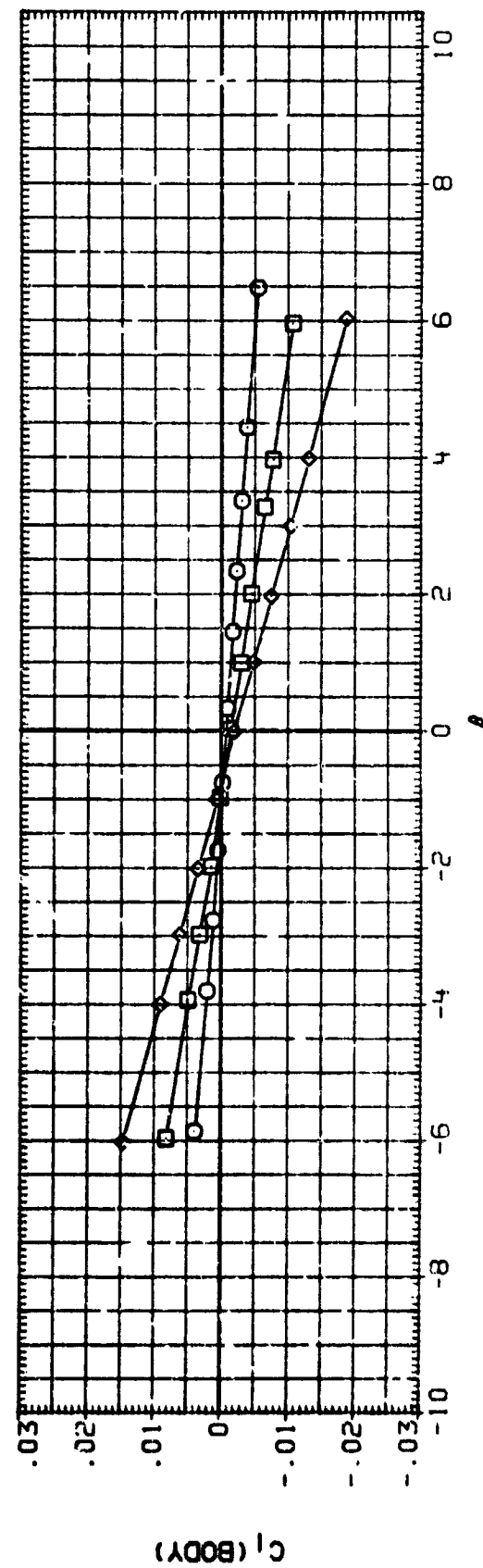
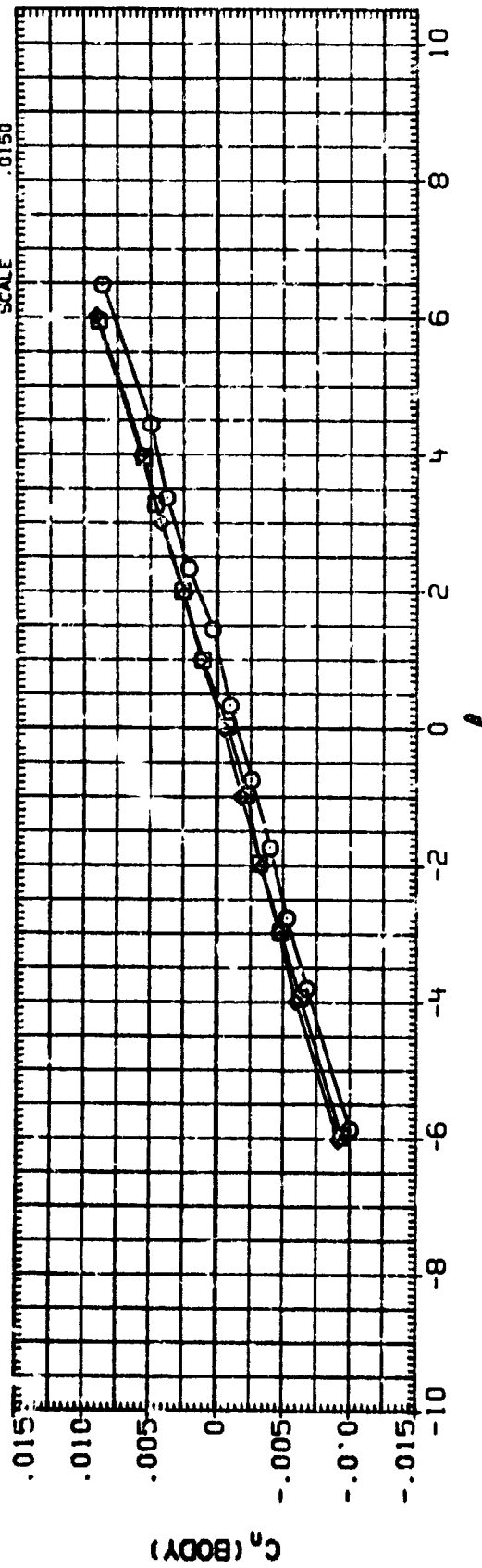


FIGURE 14. ORBITER LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS, ELEVON= 0 DEGREES

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	AILRON	SPDRK	RN/L	REFERENCE INFORMATION
(RJT045)	□	LARC LPT 228(LA61B)B26C9E43F8M16N28R5V8H	.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(RJT046)	□	LARC LPT 228(LA61B)B26C9E43F8M16N28R5V8H	5.000	.000	25.000	12.500	LREF 474.8000 INCHES
(RJT047)	◇	LARC LPT 228(LA61B)B26C9E43F8M16N28R5V8H	13.000	.000	25.000	12.500	BREF 936.6800 INCHES
(RJT050)	△	DATA NOT AVAILABLE	19.000	.000	25.000	10.000	XRRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

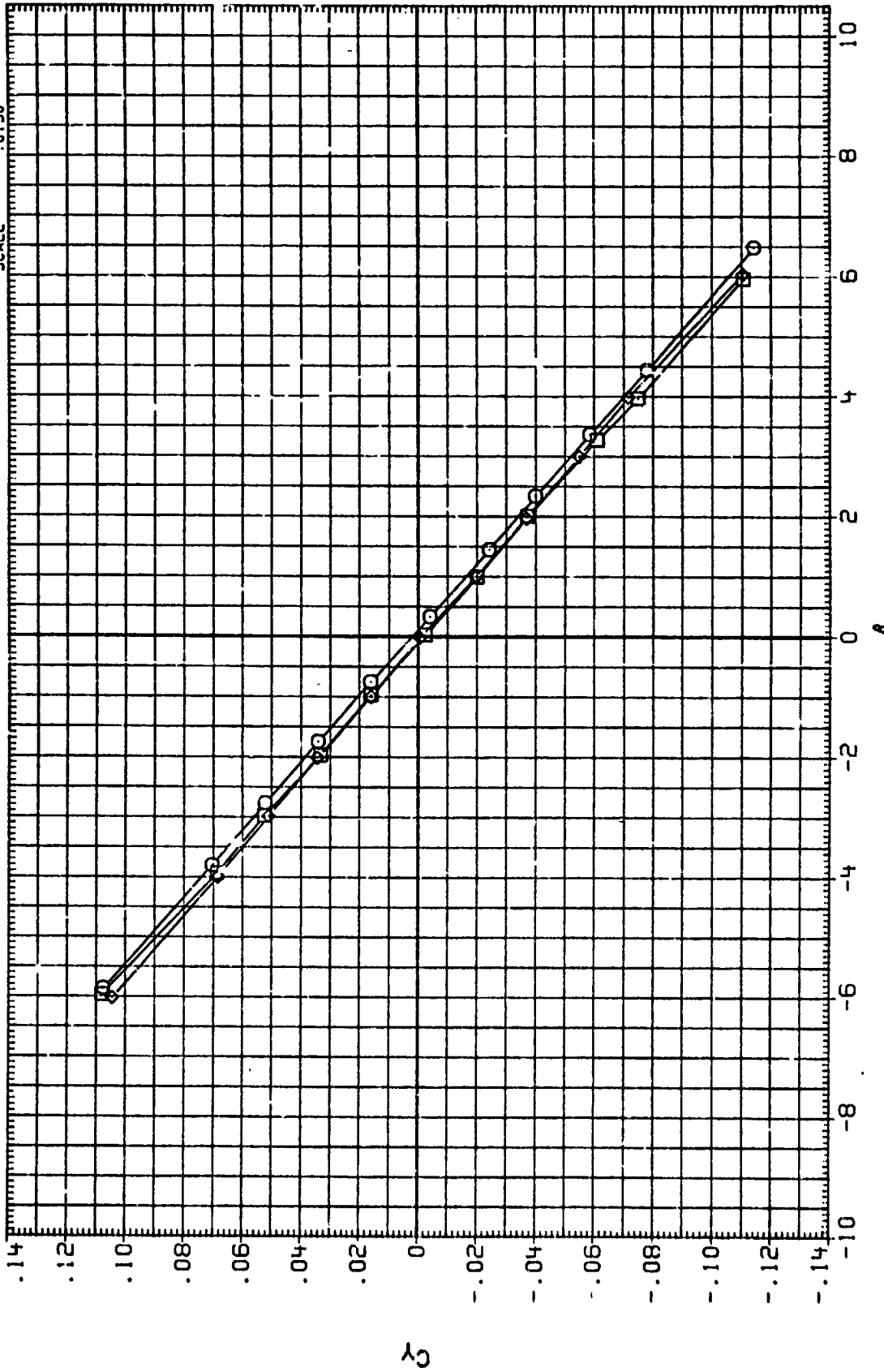


FIGURE 14. ORBITER LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS.
ELEVON= 0 DEGREES

(A) MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	A:LRON	SPDERK	RN/L	REFERENCE INFORMATION
(SJT045)	LARC LTPT 228(LA518)B26C9E43F8M16N28R5V8H	.000	.000	25.000	12.500	SREF 2690.0000 SO.FT.
(SJT046)	LARC LTPT 228(LA518)B26C9E43F8M16N28R5V8H	6.000	.000	25.000	12.500	LREF 474.8000 INCHES
(SJT047)	LARC LTPT 228(LA518)B26C9E43F8M16N28R5V8H	13.000	.000	25.000	12.500	BREF 936.5800 INCHES
(SJT050)	DATA NOT AVAILABLE	19.000	.000	25.000	10.000	XMRP 1076.7000 IN. XO
						YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

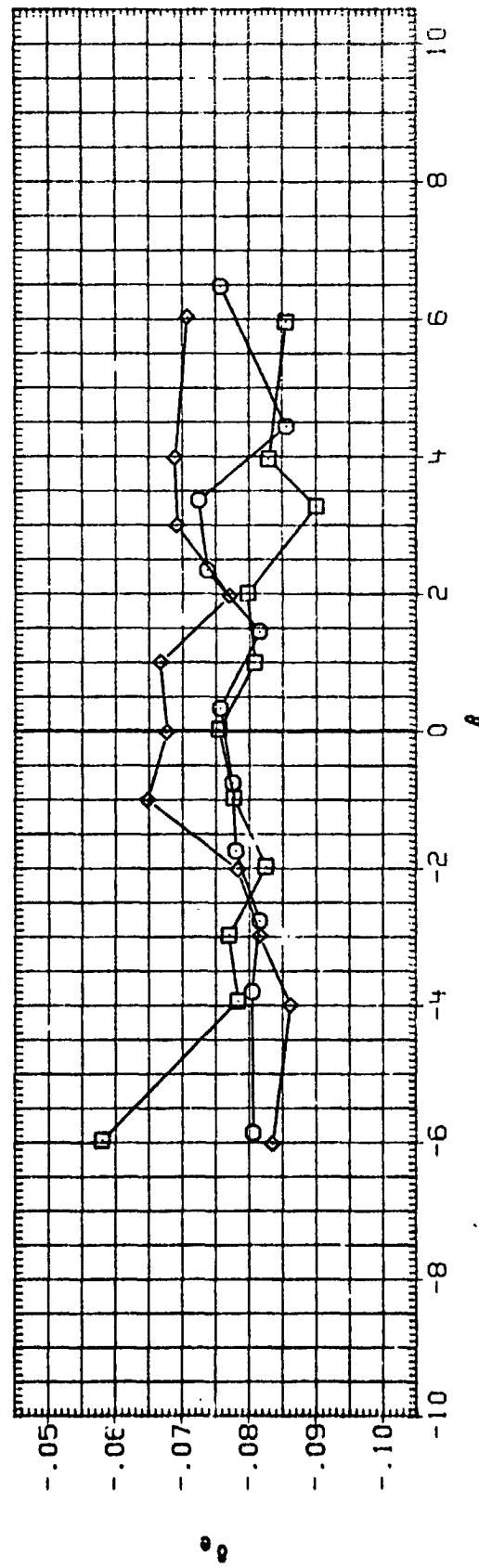
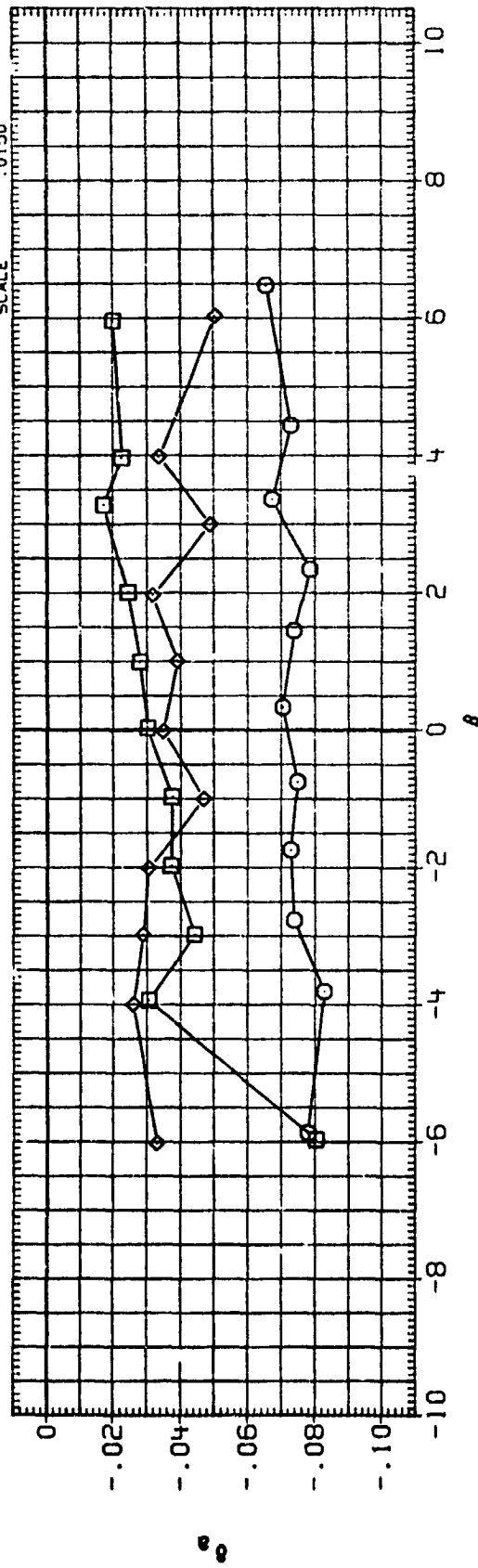


FIGURE 14. ORBITER LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS, ELEVON= 0 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	AILLON	SPOBRK	RN/L	REFERENCE INFORMATION
(RJ1041)	○	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W	.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(RJ1042)	□	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W	6.000	.000	25.000	12.500	LREF 474.8000 INCHES
(RJ1043)	◇	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W	13.000	.000	25.000	12.500	BREF 936.6800 INCHES
(RJ1044)	△	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W	20.000	.000	25.000	12.500	XMRP 1076.7000 IN. YO
							YMRP .0000 IN. ZO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

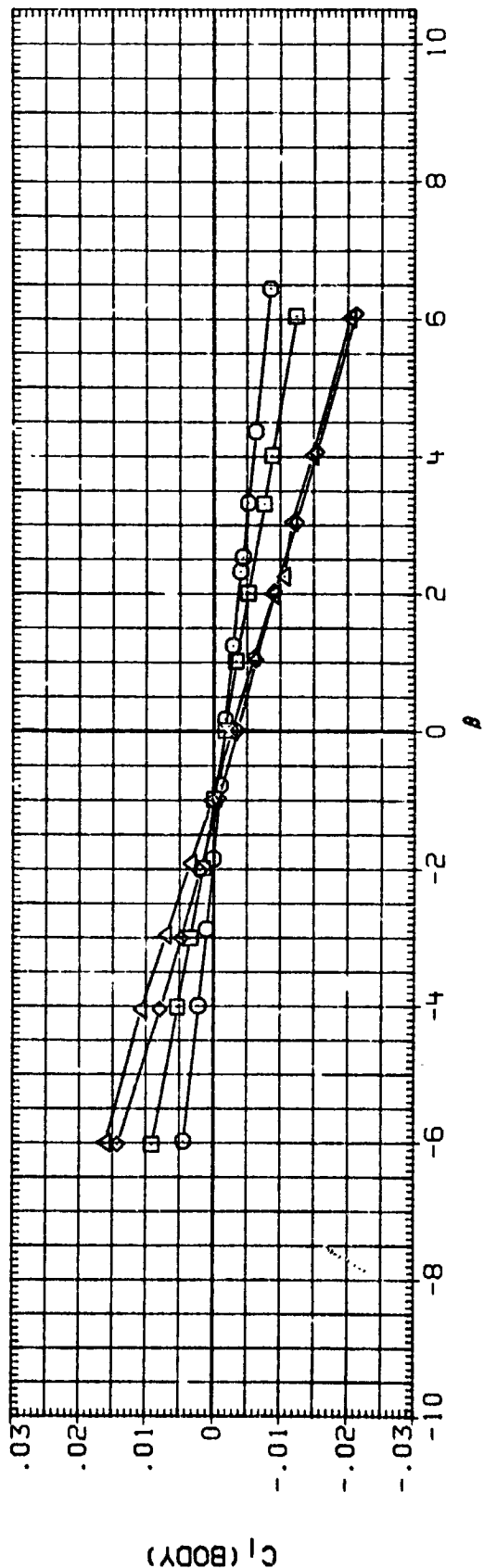
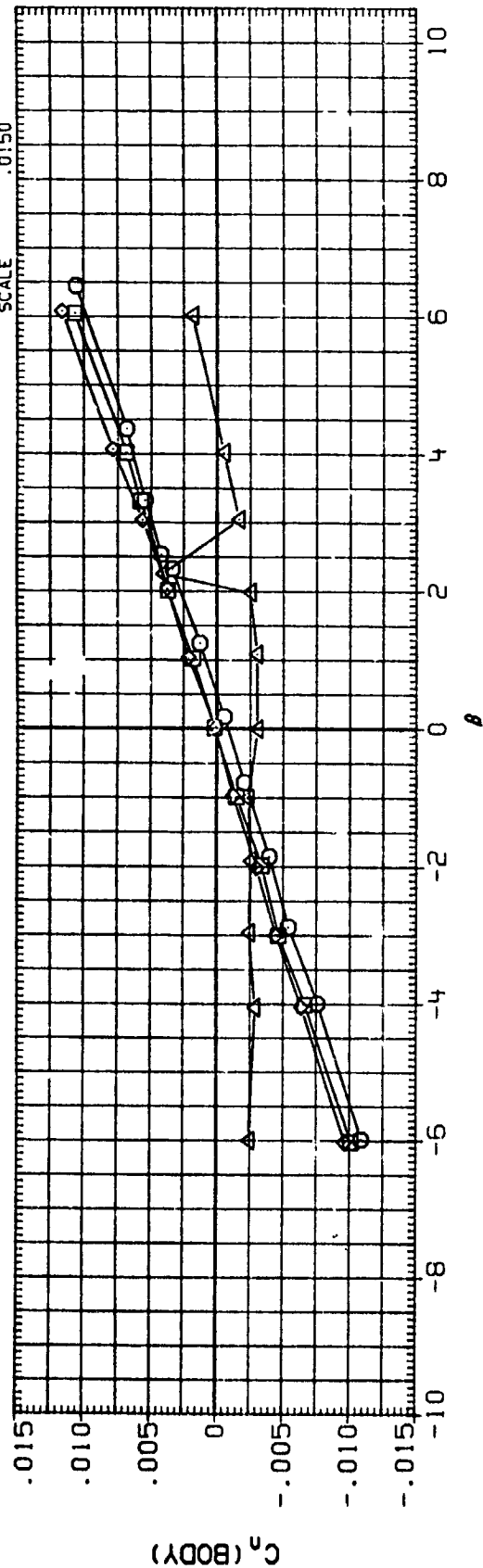


FIGURE 15. ORBITER LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS.
ELEVON= 10 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	AILRON	SPOBRK	RN/L	REFERENCE INFORMATION
(RJTN1)	○	LARC LTPT 228(LA61B)B26C9E43FBM16N28R5V8M	.000	.000	25.000	12.500	SREF 2690.0000 SQ. FT.
(RJTN2)	□	LARC LTPT 228(LA61B)B26C9E43FBM16N28R5V8M	6.000	.000	25.000	12.500	LREF 474.8000 INCHES
(RJTN3)	△	LARC LTPT 228(LA61B)B26C9E43FBM16N28R5V8M	13.000	.000	25.000	12.500	BREF 936.6800 INCHES
(RJTN4)	◇	LARC LTPT 228(LA61B)B26C9E43FBM16N28R5V8M	20.000	.000	25.000	12.500	XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

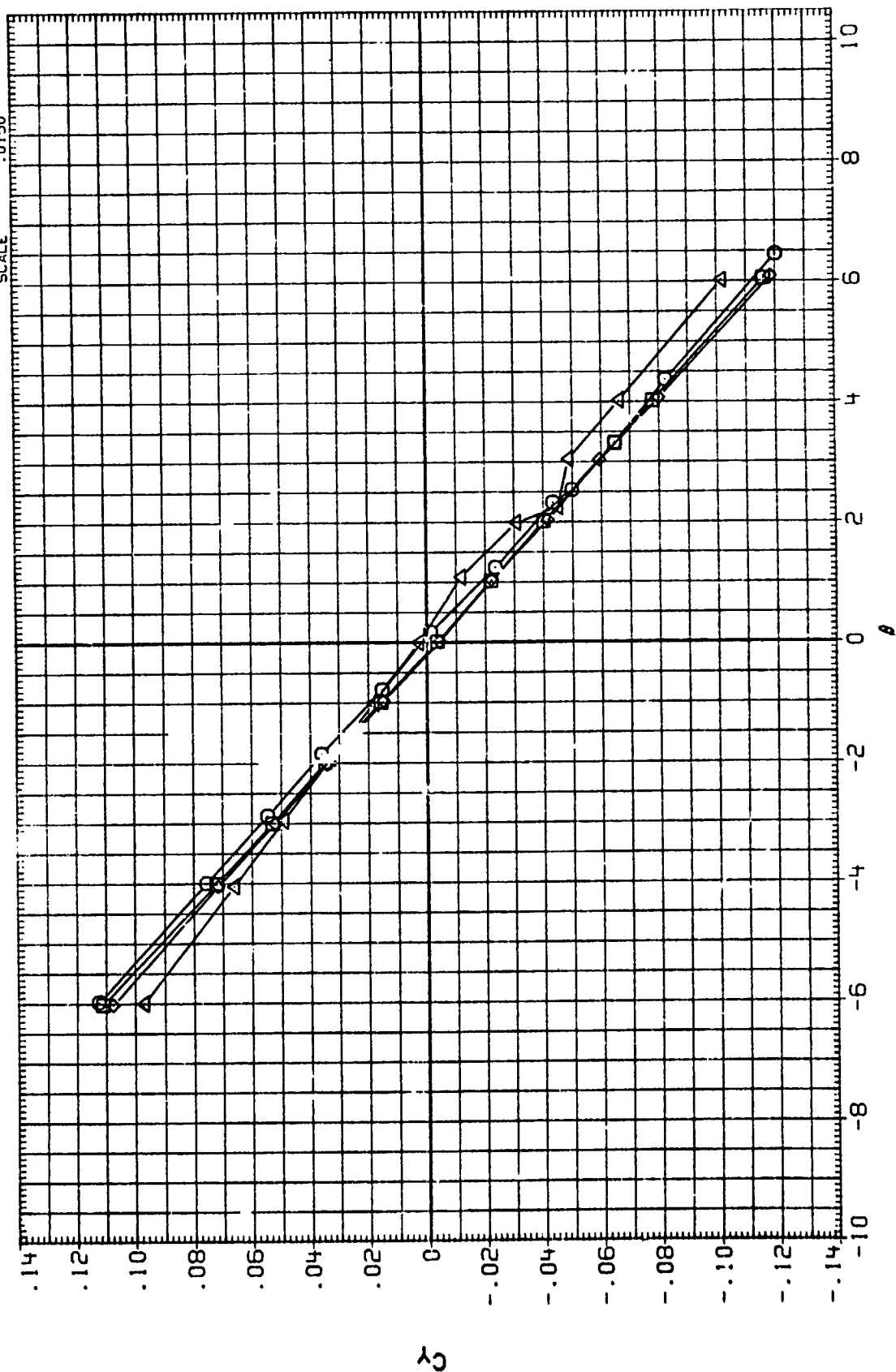


FIGURE 15. ORBITER LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS,
ELEVON= 10 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	AILRON	SPOBRK	RN/L	REFERENCE INFORMATION
(SJT041)	○	LARC LTPT 228(LA618)B26C9E43F8M16N28R5VBH	.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(SJT042)	□	LARC LTPT 228(LA618)B26C9E43F8M16N28R5VBH	6.000	.000	25.000	12.500	LREF 474.8000 INCHES
(SJT043)	◇	LARC LTPT 228(LA618)B26C9E43F8M16N28R5VBH	13.000	.000	25.000	12.500	BREF 936.6800 INCHES
(SJT044)	△	LARC - 228(LA618)B26C9E43F8M16N28R5VBH	20.000	.000	25.000	12.500	XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

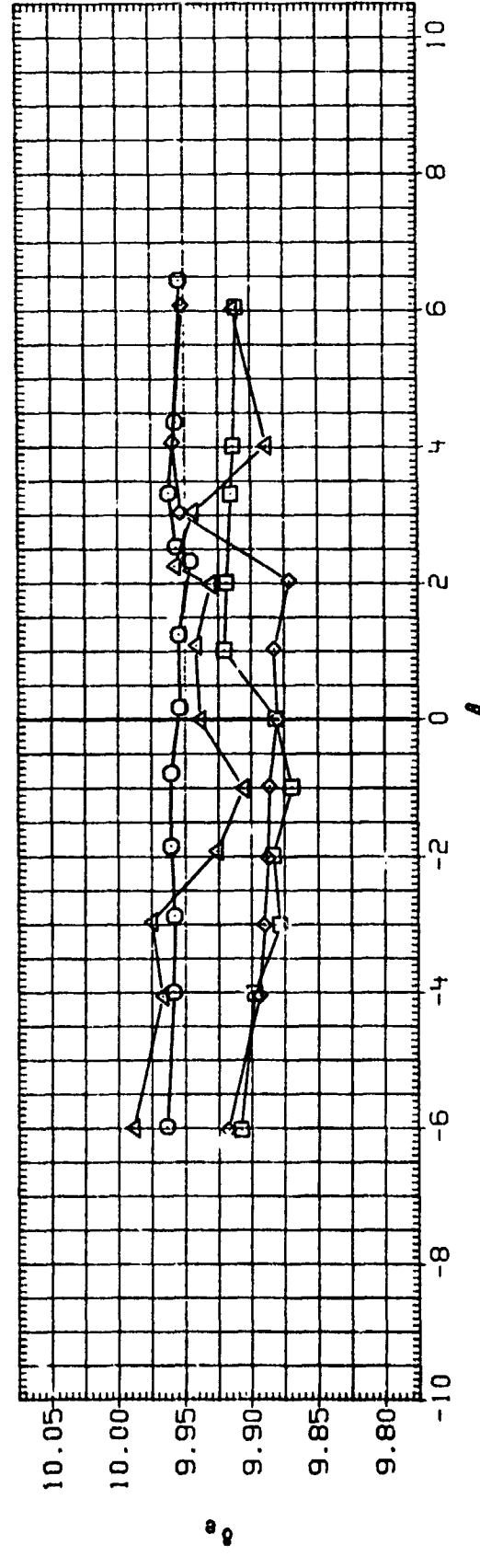
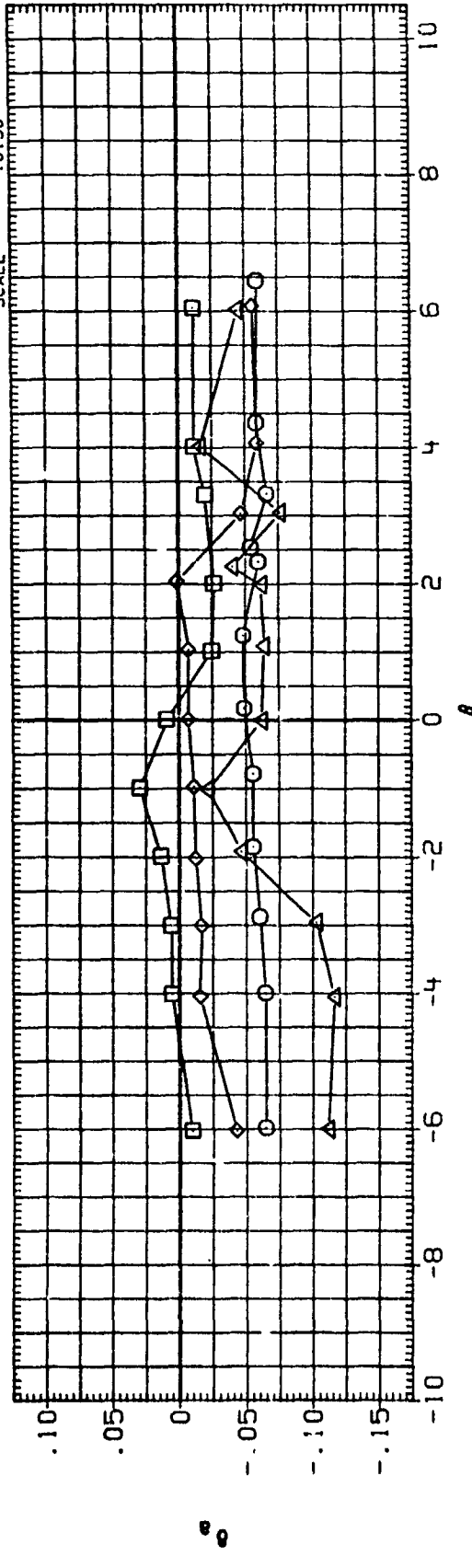


FIGURE 15. ORBITER LATERAL-DIRECTIONAL AERODYNAMIC CHARACTERISTICS,
ELEVON= 10 DEGREES

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	AILRON	SPDRK	RN/L	REFERENCE INFORMATION
(RJT035)	○	LARC LTPT 2281LAG181826C9E43F8M16N28R5V8H	.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(RJT031)	□	LARC LTPT 2281LAG181826C9E43F8M16N28R5V8H	4.000	.000	25.000	12.500	LREF 474.8000 INCHES
							BREF 936.8800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

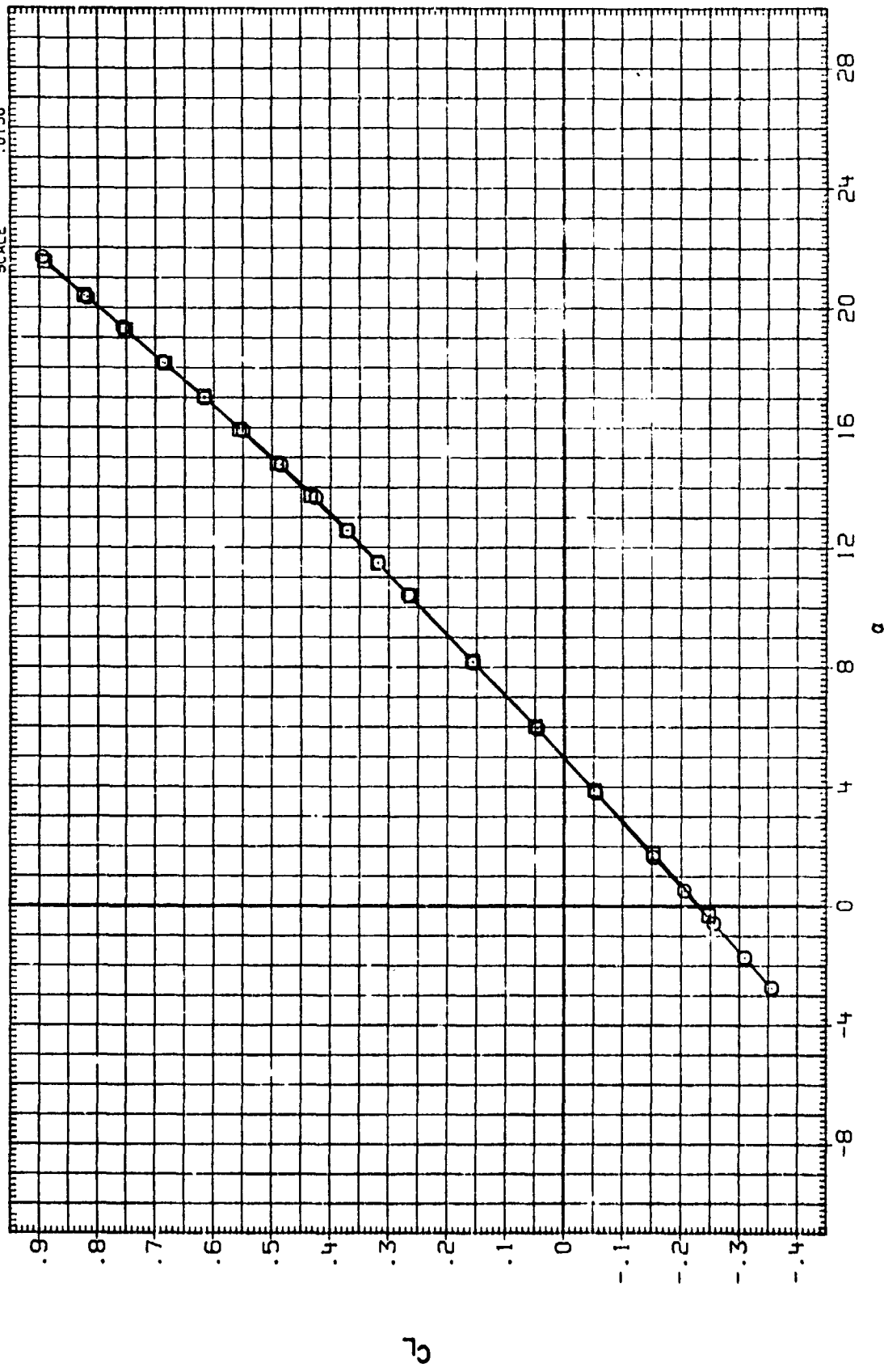


FIGURE 16. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS.
ELEVON = -10 DEGREES

(A) MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	AILRON	SPOBRK	RN/L	REFERENCE INFORMATION
(RJ035)	LARC LTPT 228(LA61B)B26C9E43F8H16A28R5V8M	.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(RJ031)	LARC LTPT 228(LA61B)B26C9E43F8H16A28R5V8M	4.000	.000	25.000	12.500	LREF 474.8000 INCHES
						BREF 936.6800 INCHES
						XMRP 1076.7000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

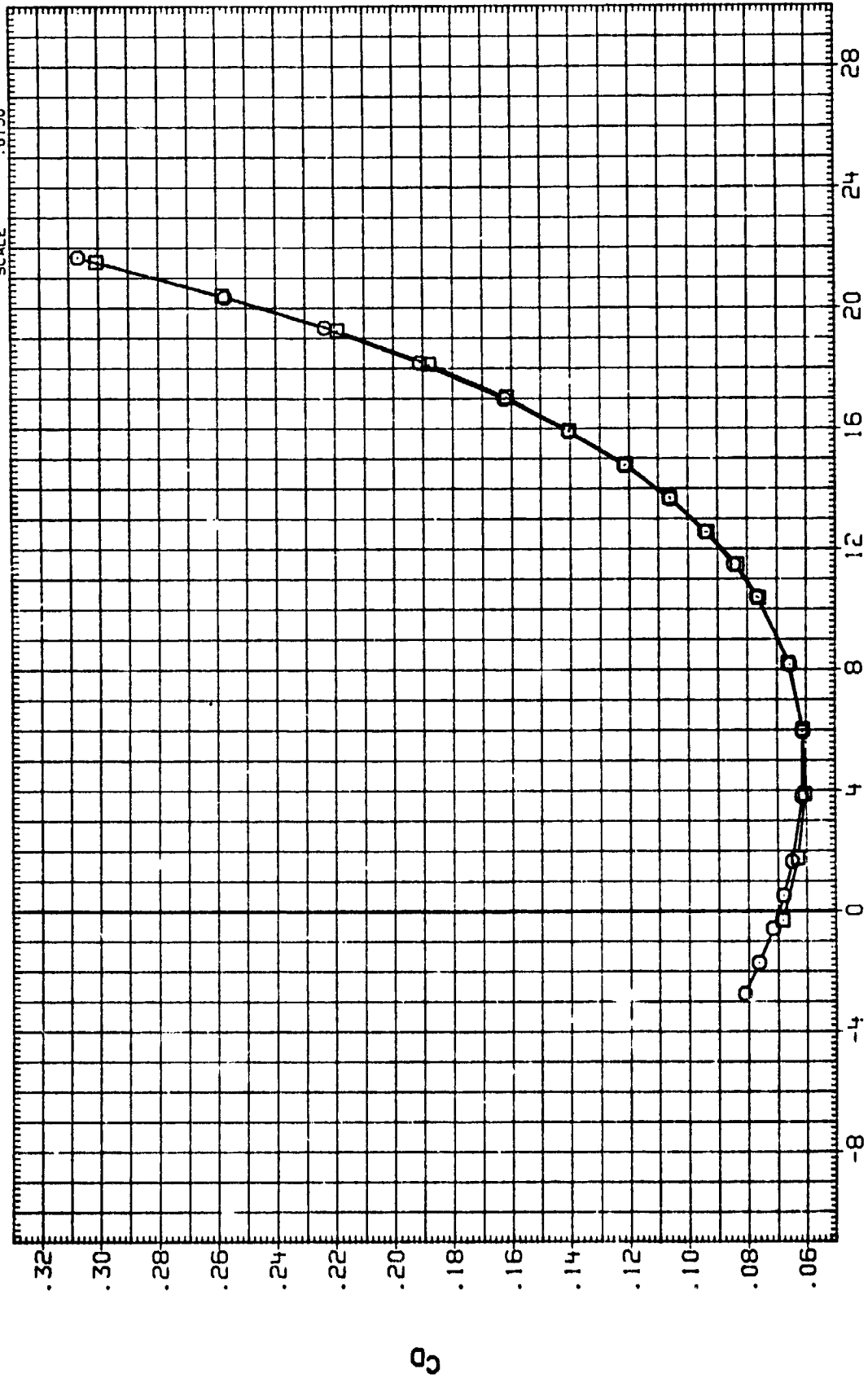


FIGURE 16. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS.
ELEVON= -10 DEGREES

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	AILRON	SPDRK	RN/L	REFERENCE INFORMATION
(RJ1035)	○	LARC LTPT 228(LA518)B26C9C43F8M13N28R5V8M	.000	.000	25.000	12.500	SREF 2690.0000 SO.FT.
(RJ1031)	□	LARC LTPT 228(LA518)B26C9C43F8M13N28R5V8M	.000	.000	25.000	12.500	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

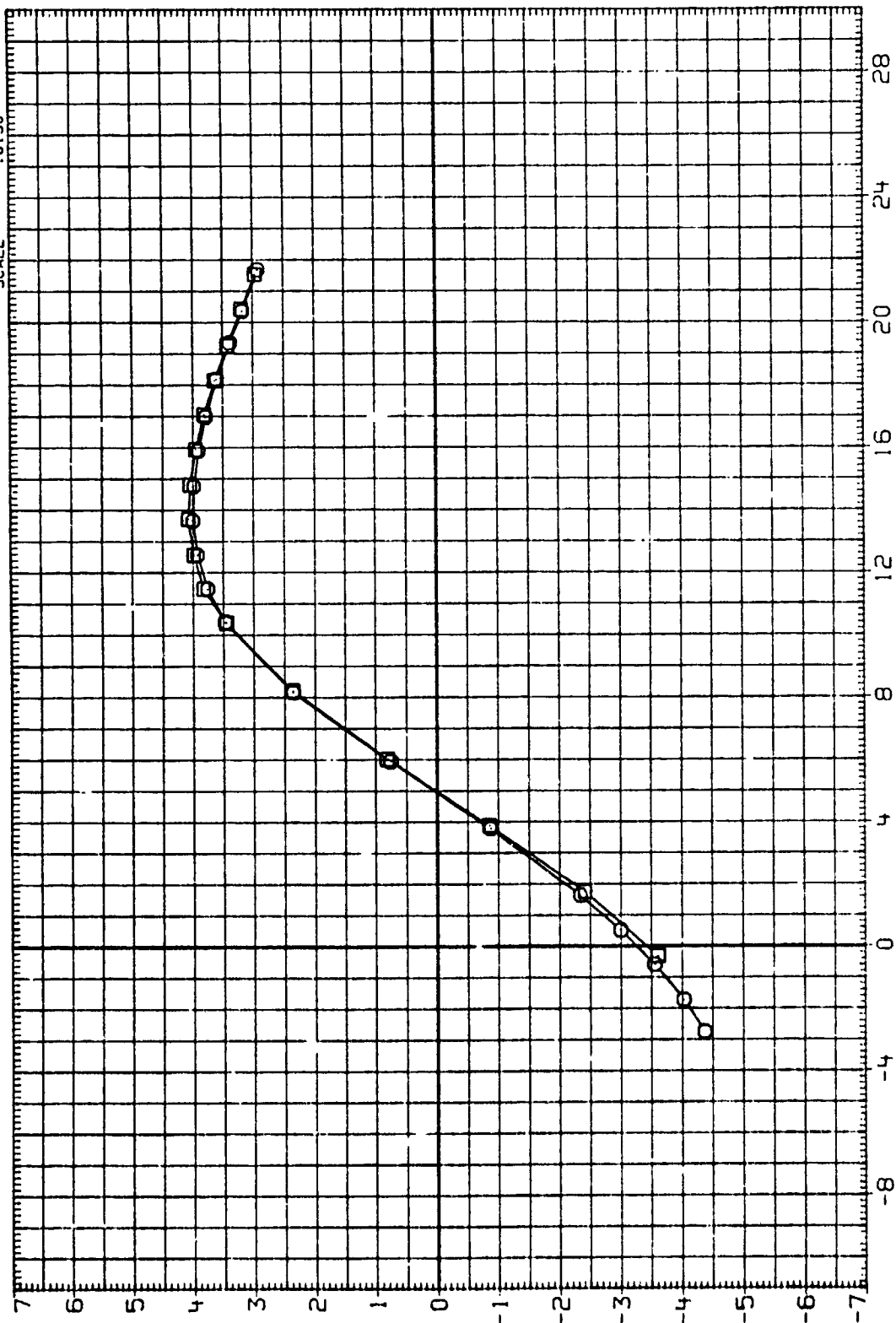


FIGURE 16. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS,
ELEVON= -10 DEGREES

(A) MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	AILRON	SPOBRK	RN/L	REFERENCE INFORMATION
(RJ035)	LARC LTPT 228(LA518)R26C9E43FBM16N28R5V8W	.000	.000	25.000	12.500	SREF 2690.0000 SQ. FT.
(RJ031)	LARC LTPT 228(LA518)S26C9E43FBM16N28R5V8W	4.000	.000	25.000	12.500	LREF 474.8000 INCHES
						BREF 936.6800 INCHES
						XMRP 1076.7000 IN. XO
						YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

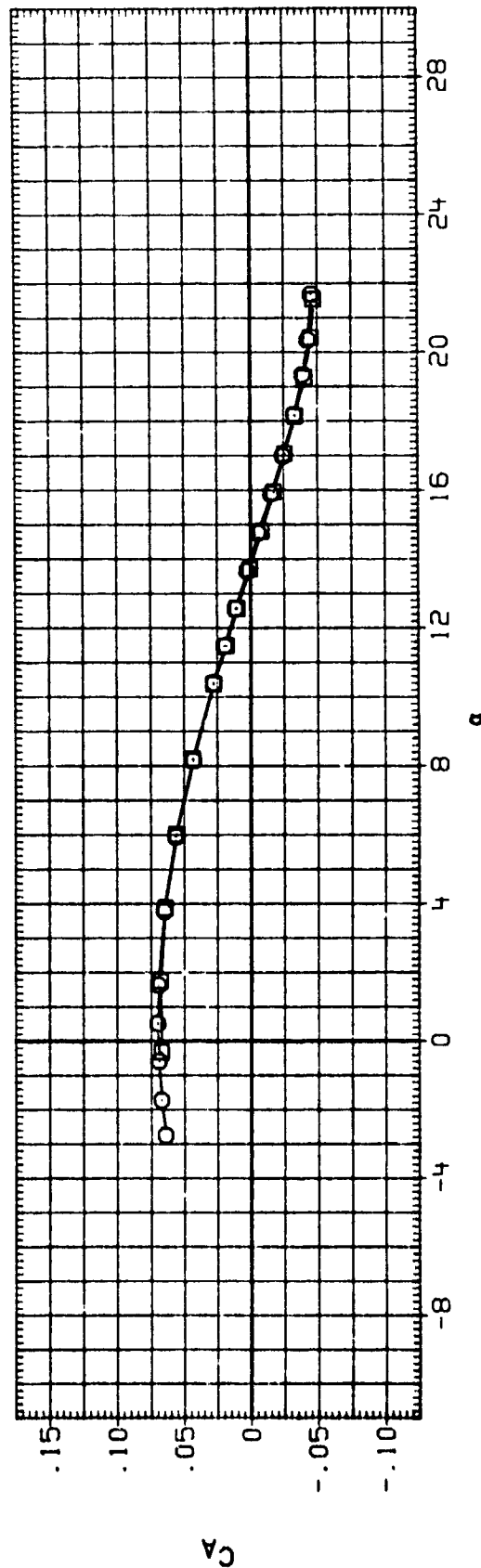
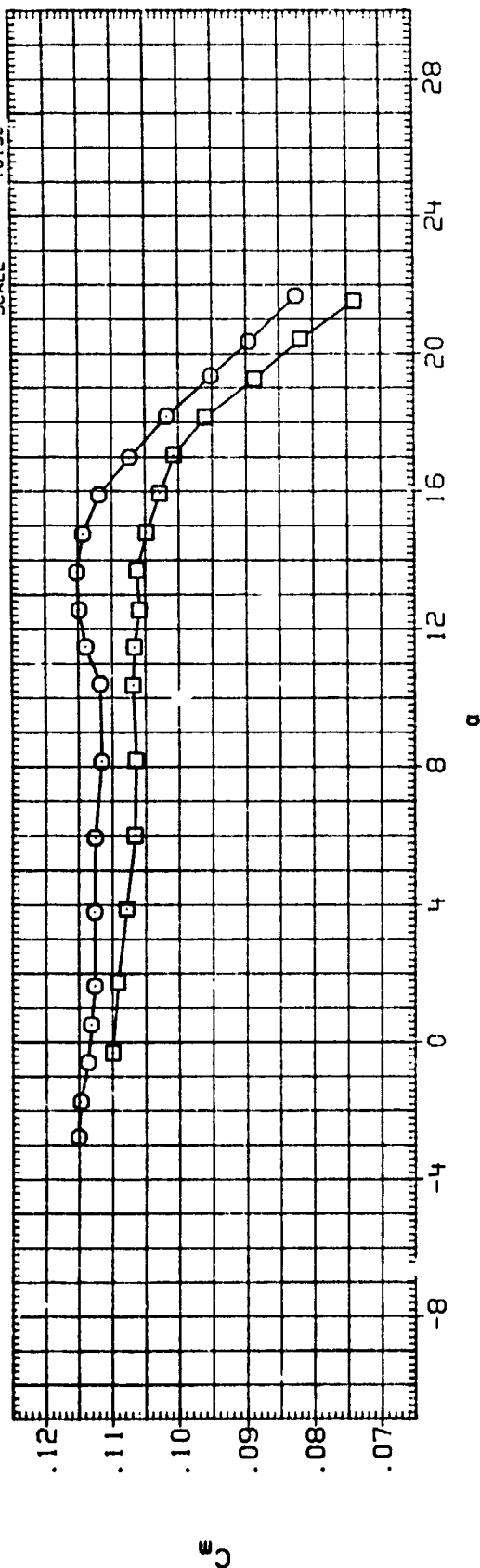


FIGURE 16. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS,
ELEVON= -10 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	AILRON	SPDRK	RN/L	REFERENCE INFORMATION
(RJ035)	○	LARC LTPT 228(LA61B)B26C9E43FBM16A28R5V8M	.000	.000	25.000	12.500	SRF 2690.0000 SQ.FT.
(RJ031)	□	LARC LTPT 228(LA61B)B26C9E43FBM16A28R5V8M	.000	.000	25.000	12.500	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

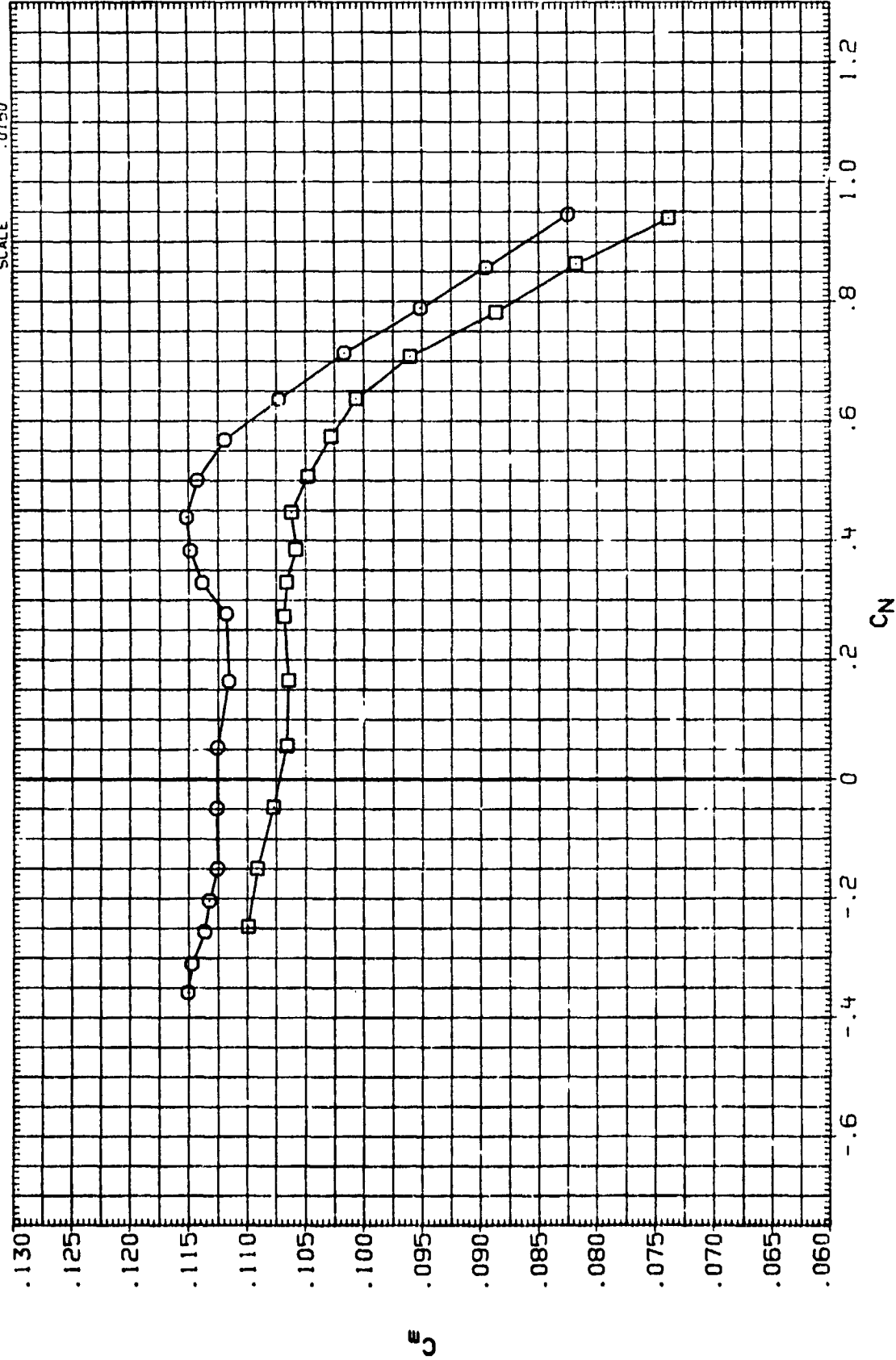


FIGURE 16. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS.
ELEVON = -10 DEGREES

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	AILERON	SPOILER	RN/L	REFERENCE INFORMATION
(RJ035)	○	LARC LPT 258(LA518)B26CSE43F8M16N28F5V8M	.000	.000	25.000	12.500	SREF 2690.0000 SQ. FT.
(RJ031)	□	LARC LPT 258(LA518)B26CSE43F8M16N28F5V8M	4.000	.000	25.000	12.500	LREF 474.8000 INCHES
							BREF 936.6800 IN. X0
							XMRP 1076.7000 IN. Y0
							YMRP .0000 IN. Z0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

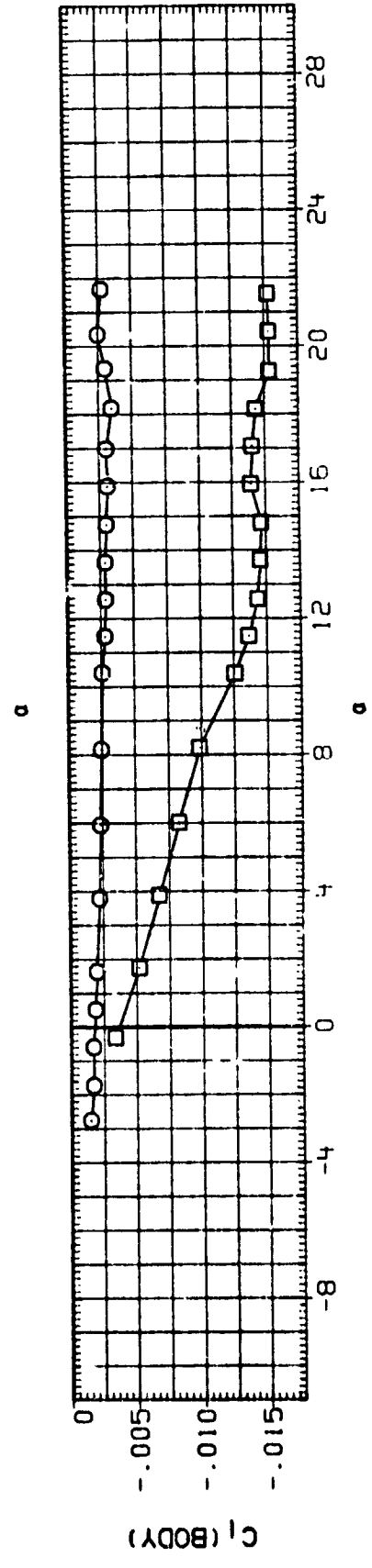
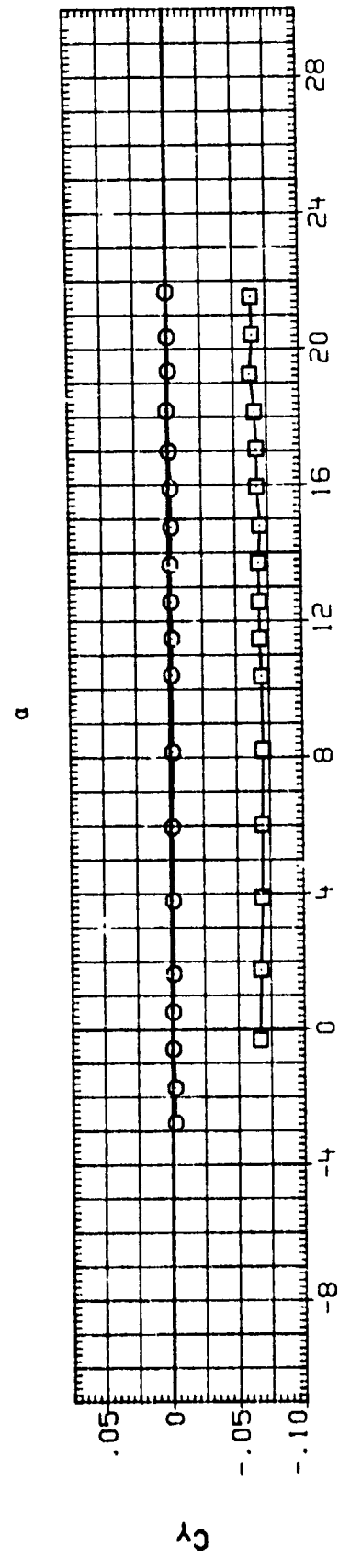
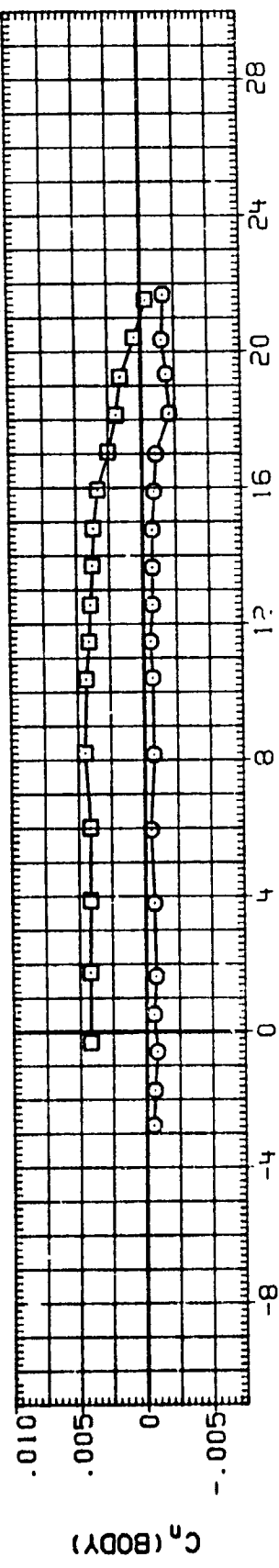


FIGURE 16. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS,
ELEVON = -10 DEGREES

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	AIRLON	SPOBRK	RN/L	REFERENCE INFORMATION
(SJT035)	○	LARC LTPT 228(LA618)226C9E43F8M16N28R5V84	.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(SJT031)	□	LARC LTPT 228(LA618)226C9E43F8M16N28R5V84	4.000	.000	25.000	12.500	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

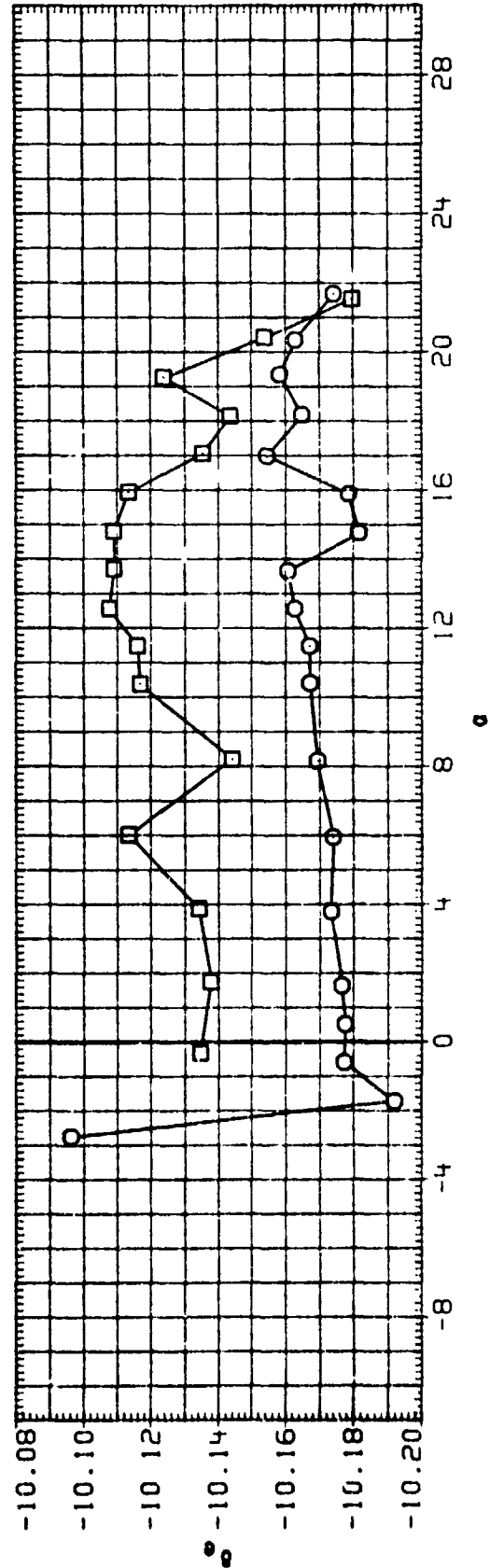
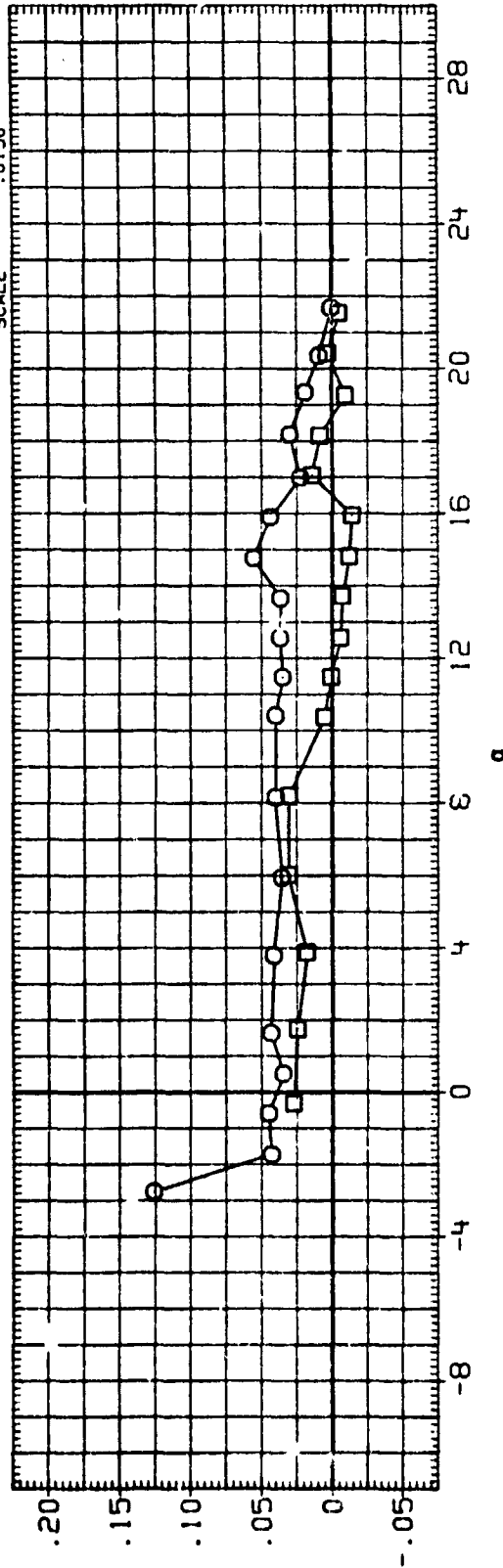


FIGURE 16. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS.
ELEVON = -10 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	AILRON	SPDRK	RN/L	REFERENCE INFORMATION
(RJ1040)	○	LARC L1PT 228(LA618)B26C9E4 3F8M16N28R5V84	-4.000	.000	25.000	12.500	SREF 2690.0000 50.FT.
(RJ1034)	□	LARC L1PT 228(LA618)B26C9E4 3F8M16N28R5V84	.000	.000	25.000	13.000	LREF 474.8000 INCHES
(RJ1030)	◇	LARC L1PT 228(LA618)B26C9E4 3F8M16N28R5V84	4.000	.000	25.000	12.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

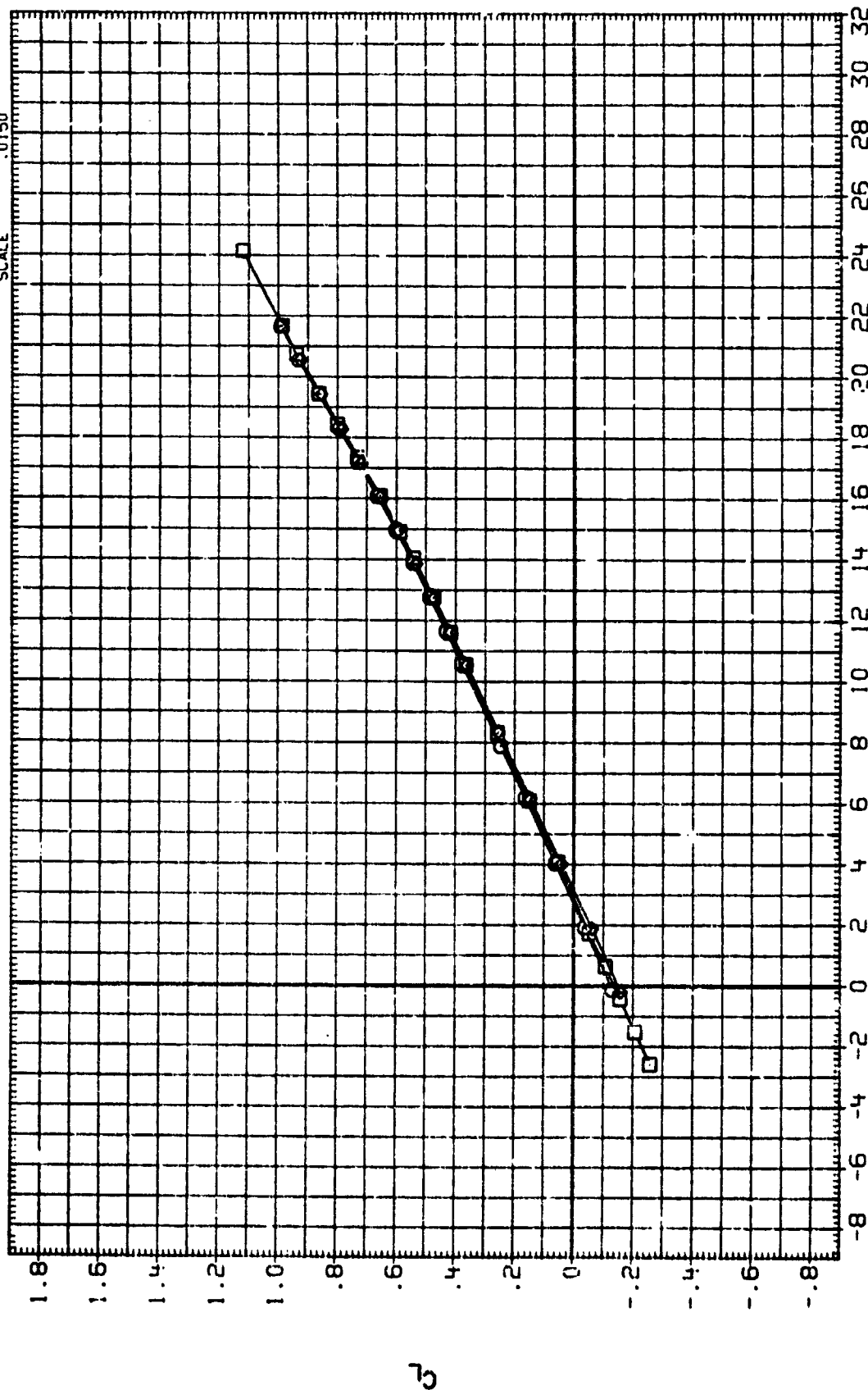


FIGURE 17. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS.
ELEVON = -5 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	AILRON	SPOBRIC	RN/L	REFERENCE INFORMATION
(RJT040)	□	LARC LTPT 228(LA618)B26C9E.V378M18N28R5V8M	-4.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(RJT034)	□	LARC LTPT 228(LA618)B26C9E.V378M18N28R5V8M	.000	.000	25.000	13.000	LREF 474.8000 INCHES
(RJT030)	◇	LARC LTPT 228(LA618)B26C9E.V378M18N28R5V8M	.000	.000	25.000	12.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

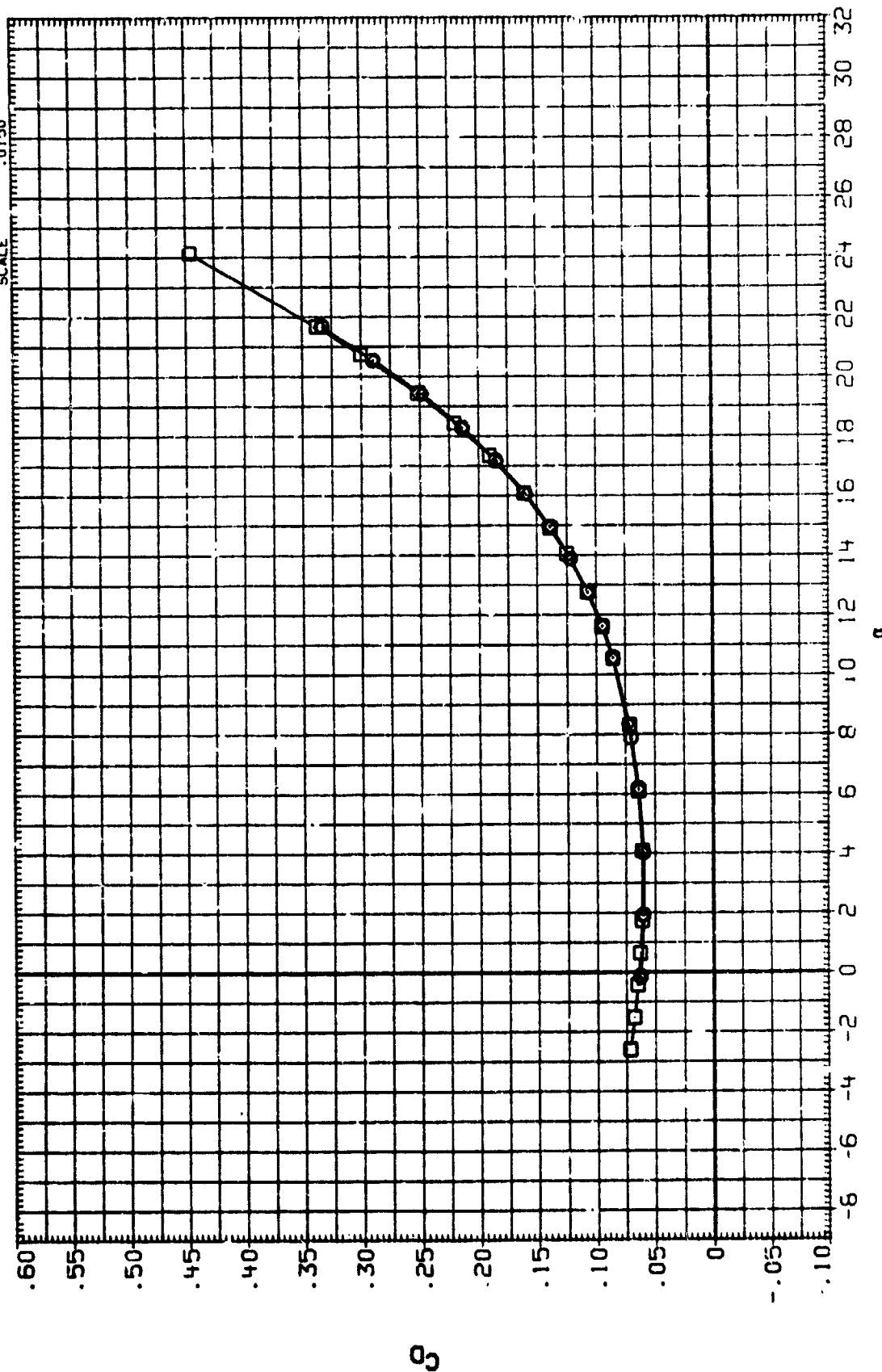


FIGURE 17. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS.
ELEVON = -5 DEGREES

(A) MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	AIRLON	SPDRK	RN/L	REFERENCE INFORMATION
(RJTO40)	LARC LTPT 228(LAS18)B26C9E43F8M16N28R5VBW	-4.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(RJTO34)	LARC LTPT 228(LAS18)B26C9E43F8M16N28R5VBW	.000	.000	25.000	13.000	LREF 474.8000 INCHES
(RJTO30)	LARC LTPT 228(LAS18)B26C9E43F8M16N28R5VBW	4.000	.000	25.000	12.500	BREF 936.6800 INCHES
						XMRP 1076.7000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

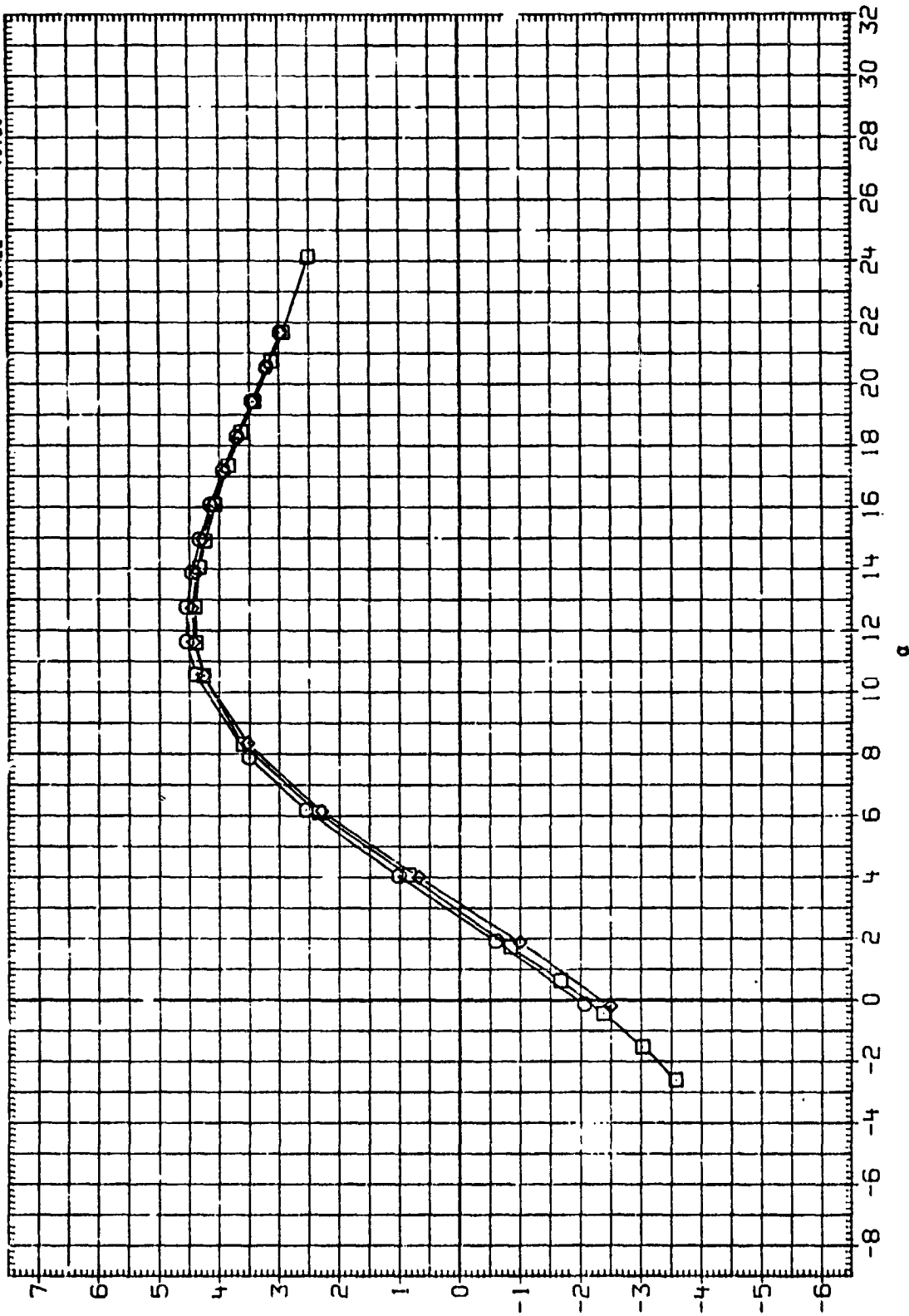


FIGURE 17. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS.
ELEVON = -5 DEGREES

(A) MACH = .20

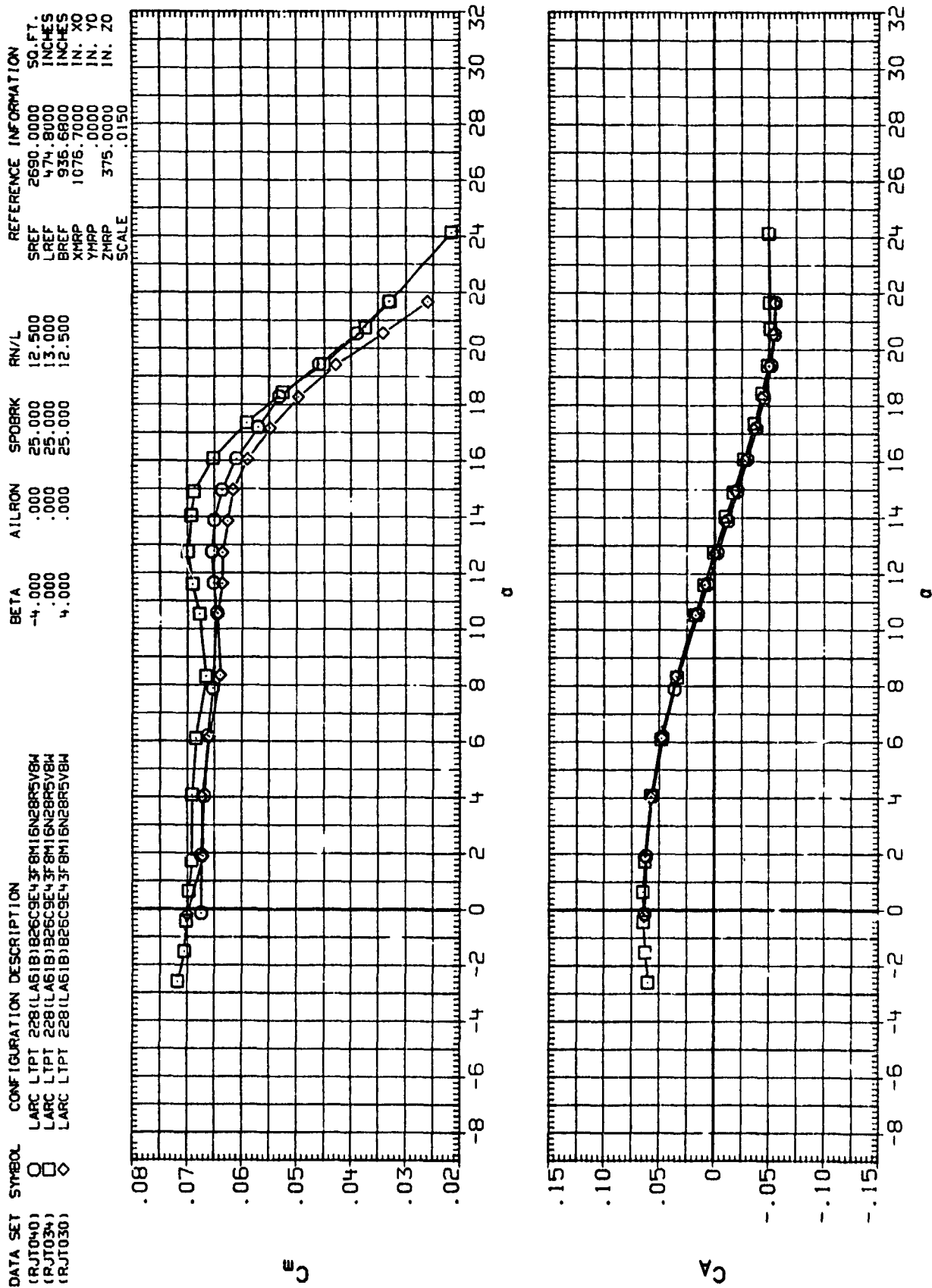


FIGURE 17. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS.
ELEVON = -5 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	AILRON	SPDRBK	RN/L	REFERENCE INFORMATION
(RJT040)	○	LARC LTPT 228(LA51B1B26C9E43F8M16N2835V8W)	-4.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(RJT034)	□	LARC LTPT 228(LA51B1B26C9E43F8M16N2835V8W)	.000	.000	25.000	13.000	LREF 474.8000 INCHES
(RJT030)	◇	LARC LTPT 228(LA51B1B26C9E43F8M16N2835V8W)	4.000	.000	25.000	12.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

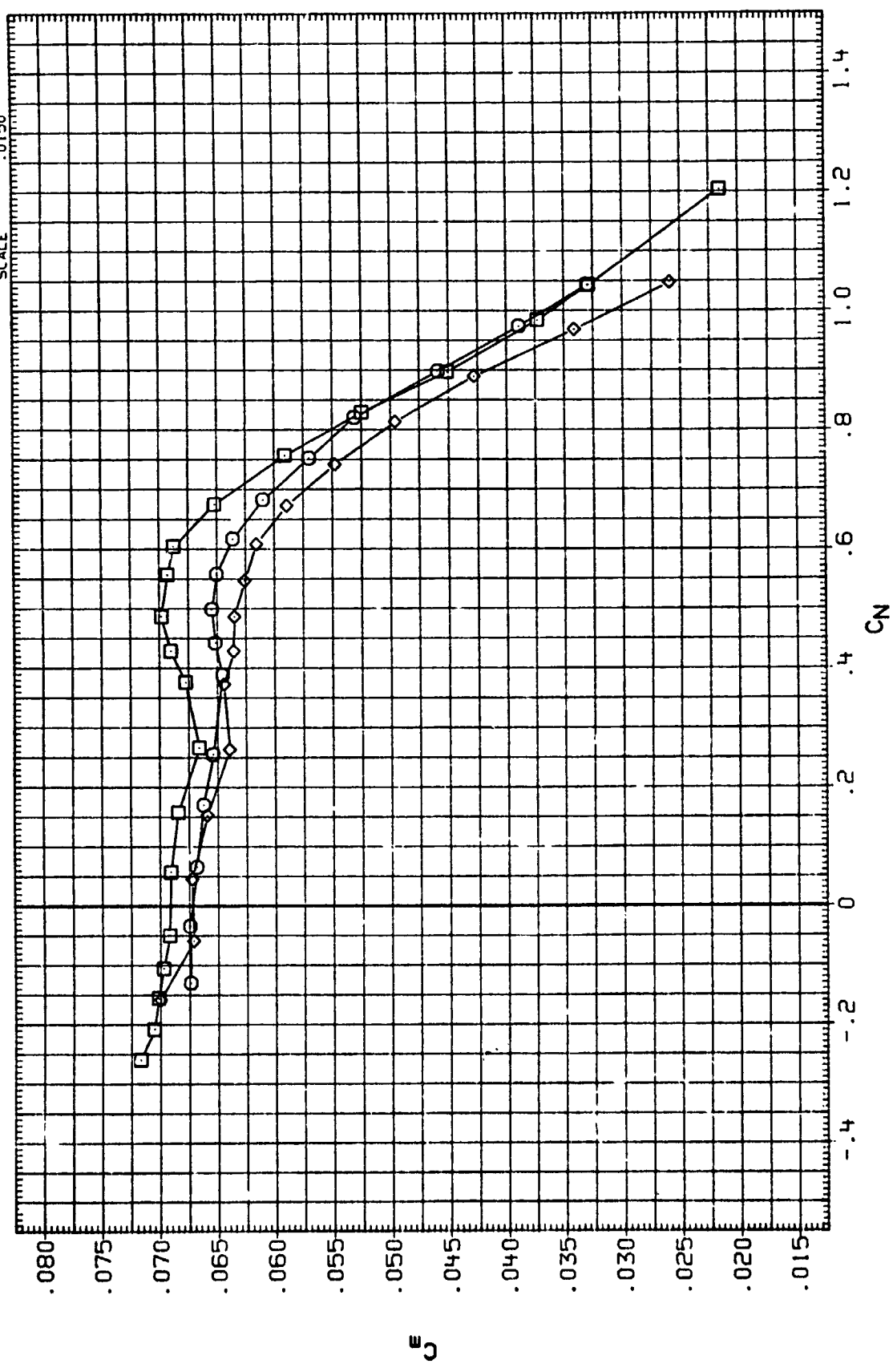


FIGURE 17. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS.
ELEVON= -5 DEGREES

(A) MACH = .20

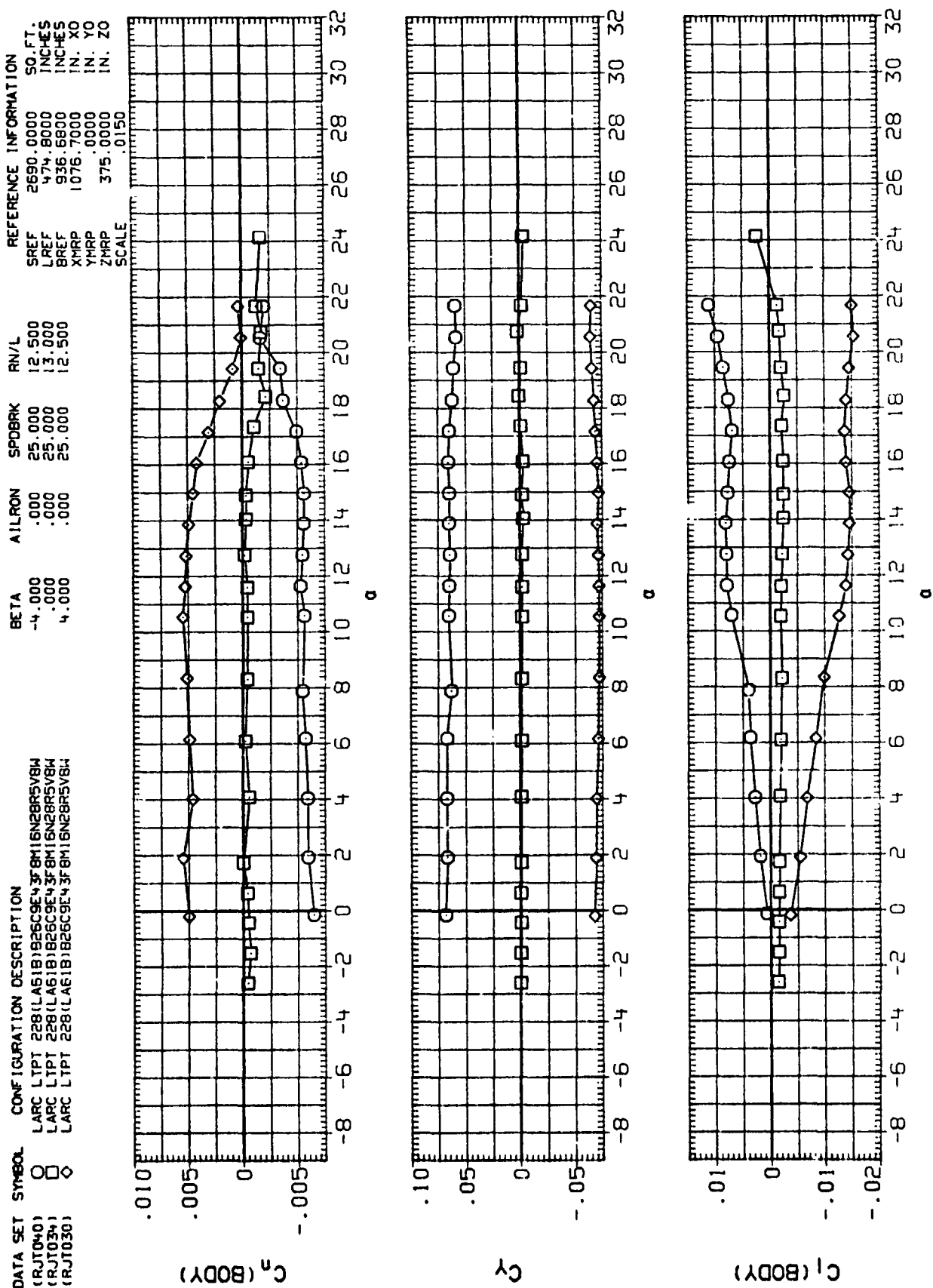


FIGURE 17. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS,
ELEVON= -5 DEGREES

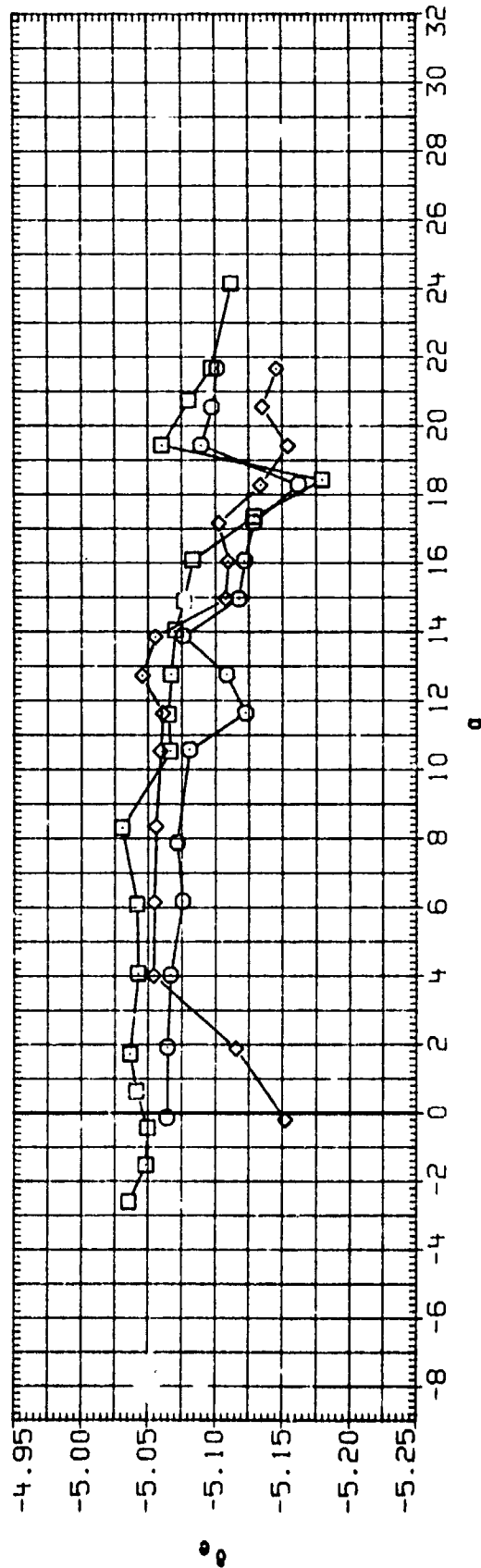
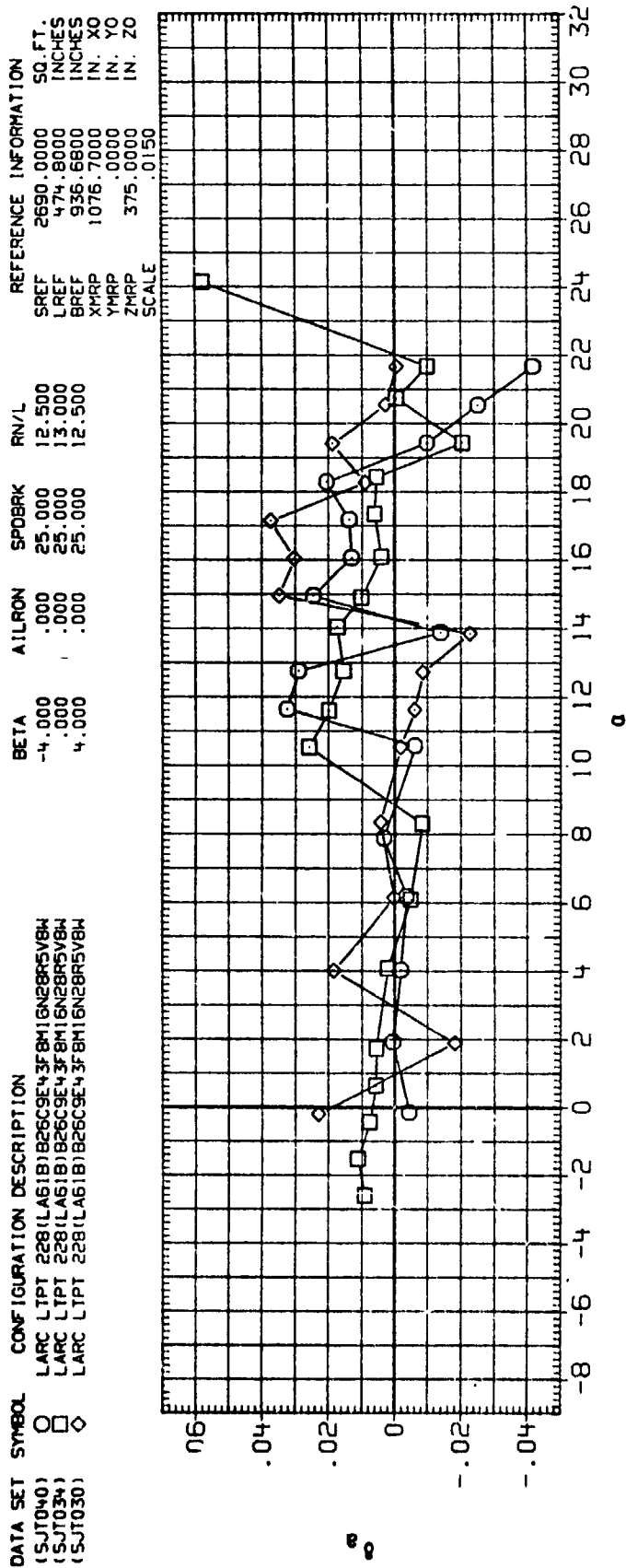


FIGURE 17. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS,
ELEVON= -5 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	AILRON	SPDBRK	RN/L	REFERENCE INFORMATION
(RJT039)	□	LARC LTPT 228(LA61B)126C9E43F8M16N28R5V8H	-4.000	.000	25.000	12.500	SREF 2690.0000 SQ. FT.
(RJT076)	◇	LARC LTPT 228(LA61B)1826C9E43F8M16N28R5V8H	-2.000	.000	25.000	12.500	LREF 474.8000 INCHES
(RJT023)	◇	LARC LTPT 228(LA61B)1826C9E43F8M16N28R5V8H	.000	.000	25.000	12.500	BREF 936.6800 INCHES
(RJT025)	△	LARC LTPT 228(LA61B)1826C9E43F8M16N28R5V8H	2.000	.000	25.000	12.500	XMRP 1076.7000 IN. XO
(RJT028)	△	LARC LTPT 228(LA61B)1826C9E43F8M16N28R5V8H	4.000	.000	25.000	12.500	YMRP 375.0000 IN. YO

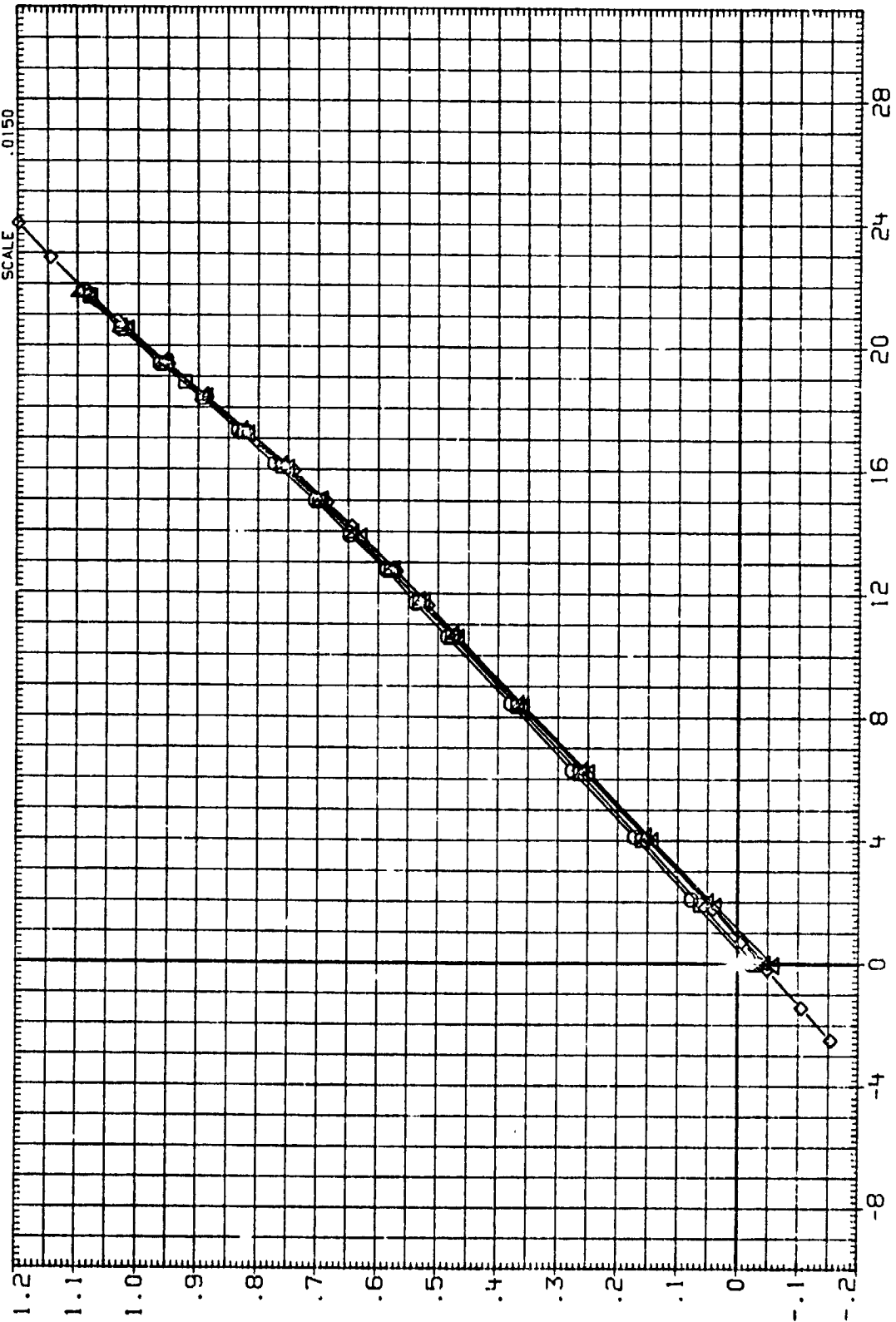


FIGURE 18. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS,
ELEVON= 0 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	AILRON	SPDBRK	RN/L	REFERENCE INFORMATION
(RJT039)	□	LARC LTPT 228(LA618)B26C9E43FBM16N28R5VBW	-4.000	.000	25.000	12.500	SREF 2690.0000 SO.FT.
(RJT035)	□	LARC LTPT 228(LA618)B26C9E43FBM16N28R5VBW	-2.000	.000	25.000	12.500	LREF 474.8000 INCHES
(RJT023)	◇	LARC LTPT 228(LA618)B26C9E43FBM16N28R5VBW	.000	.000	25.000	12.500	BREF 936.6800 INCHES
(RJT025)	△	LARC LTPT 228(LA618)B26C9E43FBM16N28R5VBW	2.000	.000	25.000	12.500	XHRP 1076.7000 IN. XO
(RJT026)	△	LARC LTPT 228(LA618)B26C9E43FBM16N28R5VBW	4.000	.000	25.000	12.500	YHRP .0000 IN. YO
							ZHRP 375.0000 IN. ZO

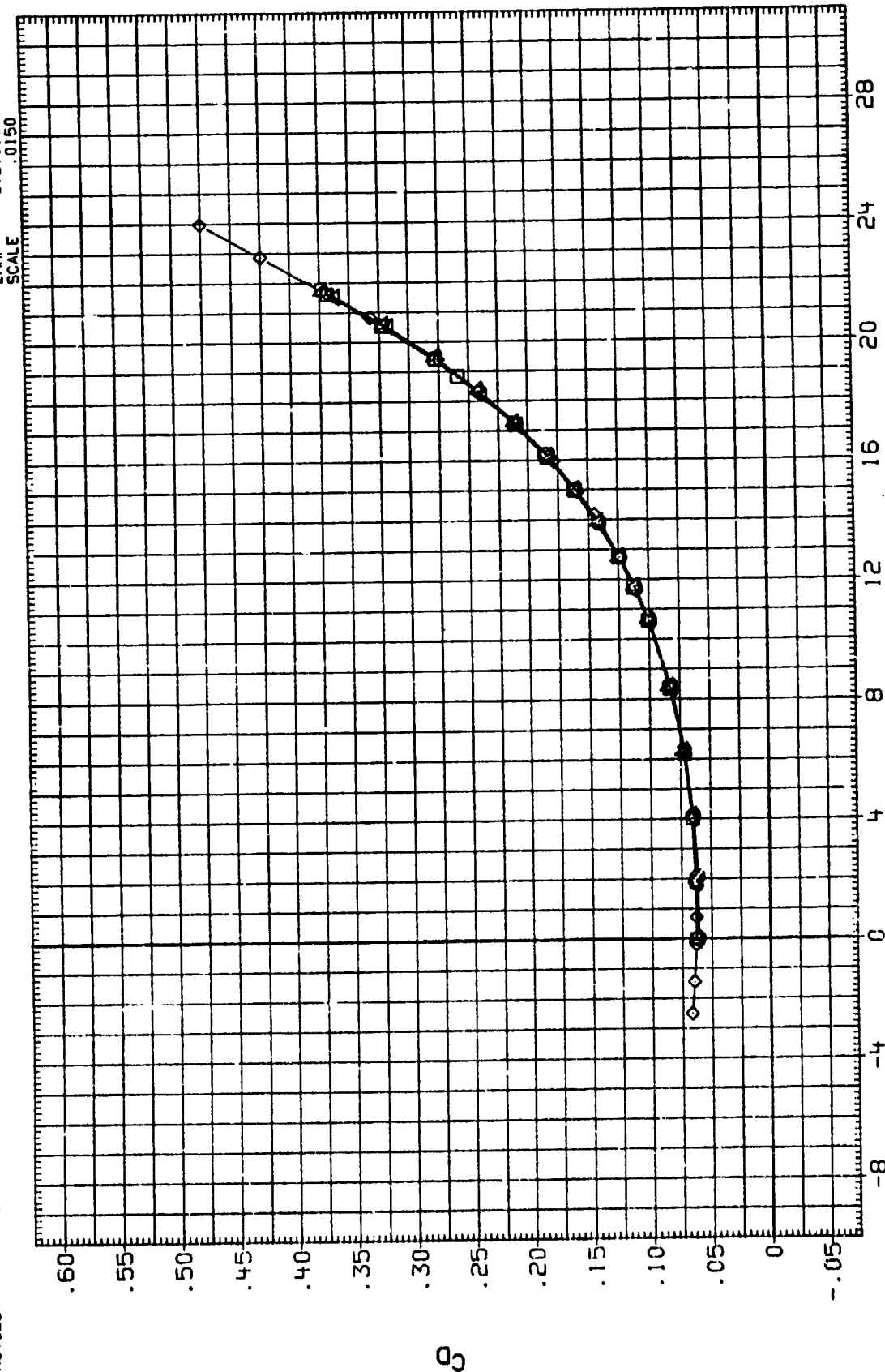


FIGURE 18. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS.
ELEVON= 0 DEGREES

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	AIR/W	SPDRK	RN/L	REFERENCE INFORMATION
(RJT039)	○	LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8M	-4.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(RJT035)	□	LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8M	-2.000	.000	25.000	12.500	LREF 474.8000 INCHES
(RJT023)	◇	LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8M	.000	.000	25.000	12.500	BREF 936.6800 INCHES
(RJT025)	△	LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8M	2.000	.000	25.000	12.500	XMRP 1076.7000 IN. XO
(RJT028)	▽	LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8M	4.000	.000	25.000	12.500	ZMRP 375.0000 IN. ZO

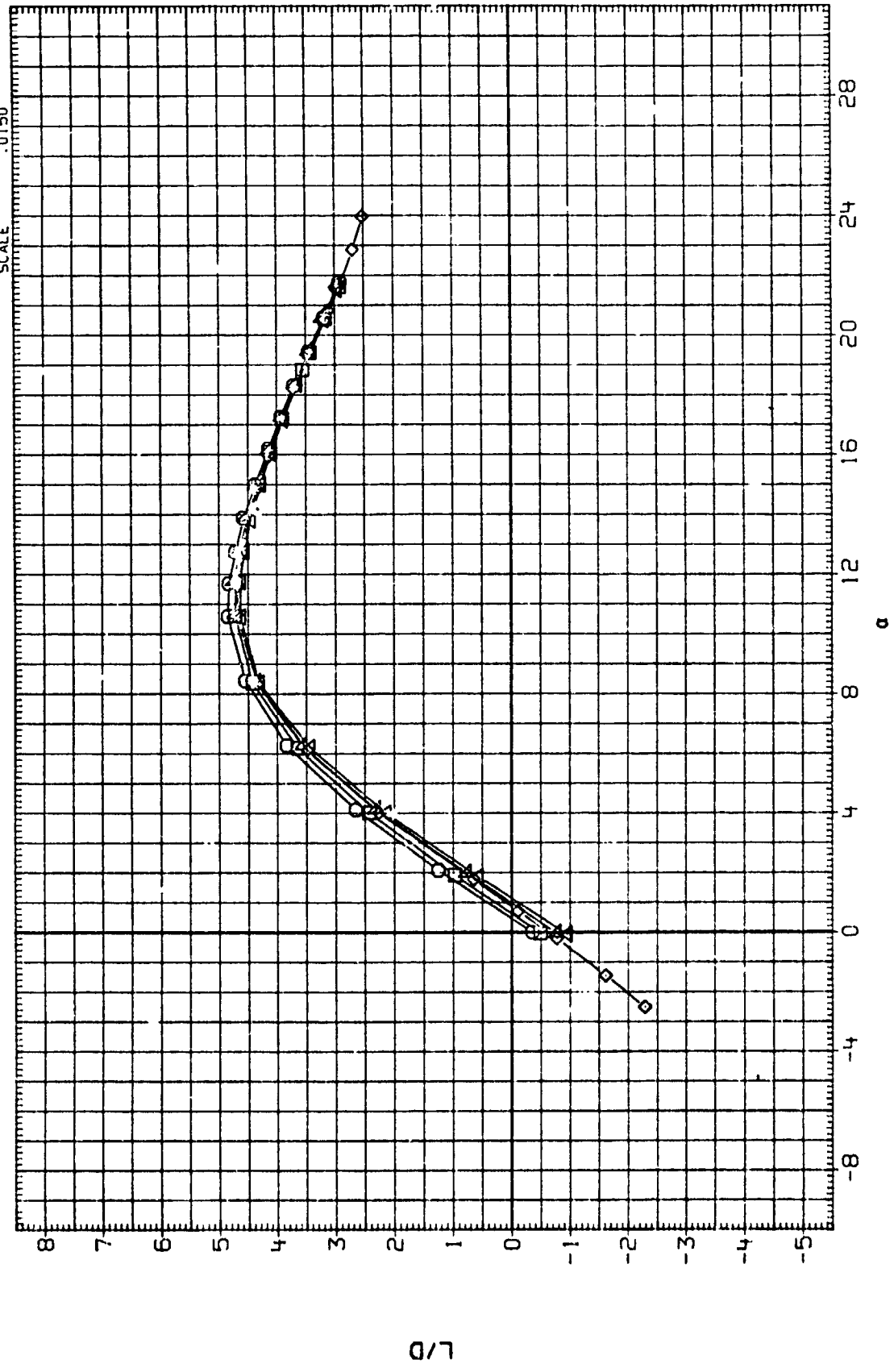


FIGURE 18. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS.
ELEVON= 0 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	AILRON	SPDRK	RN/L	REFERENCE INFORMATION
(RJT039)	○	LARC L TPT 228(LA618)B26C9E43FBM16N28R5VBW	-4.000	.000	25.000	12.500	SREF 2690.0000 SO.FT.
(RJT036)	□	LARC L TPT 228(LA618)B26C9E43FBM16N28R5VBW	-2.000	.000	25.000	12.500	LREF 474.6000 INCHES
(RJT023)	◇	LARC L TPT 228(LA618)B26C9E43FBM16N28R5VBW	.000	.000	25.000	12.500	BREF 936.3800 INCHES
(RJT025)	△	LARC L TPT 228(LA618)B26C9E43FBM16N28R5VBW	2.000	.000	25.000	12.500	XMRP 1076.7000 IN. XO
(RJT026)	▽	LARC L TPT 228(LA618)B26C9E43FBM16N28R5VBW	4.000	.000	25.000	12.500	YMRP 375.0000 IN. ZO
							ZMRP .0150 SCALE

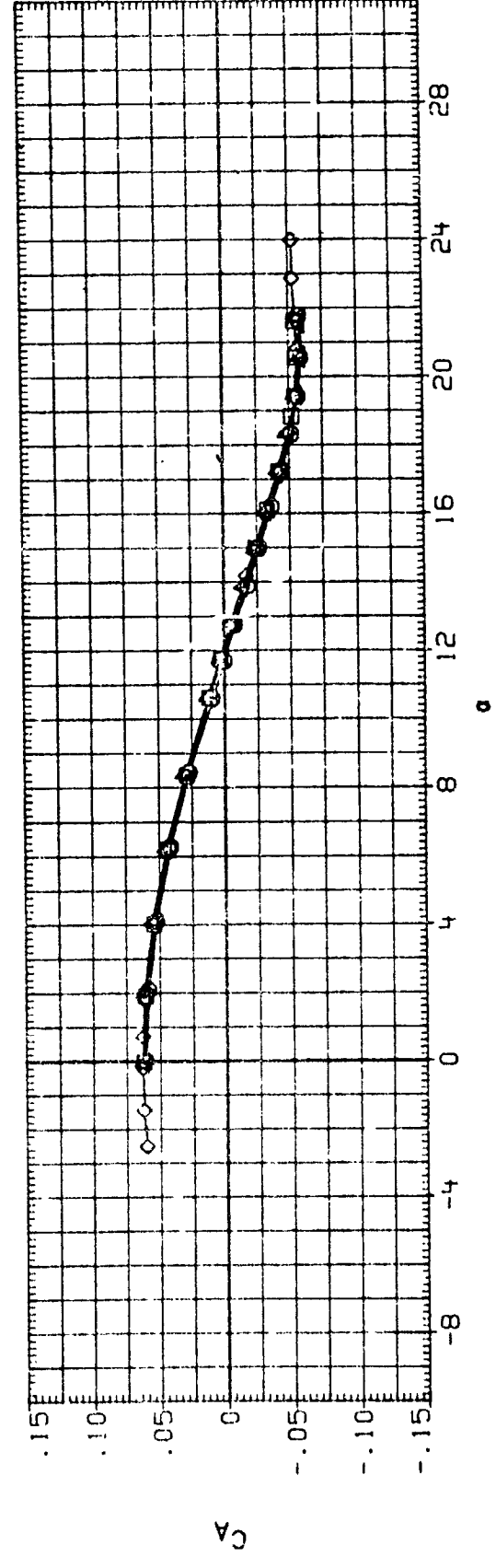
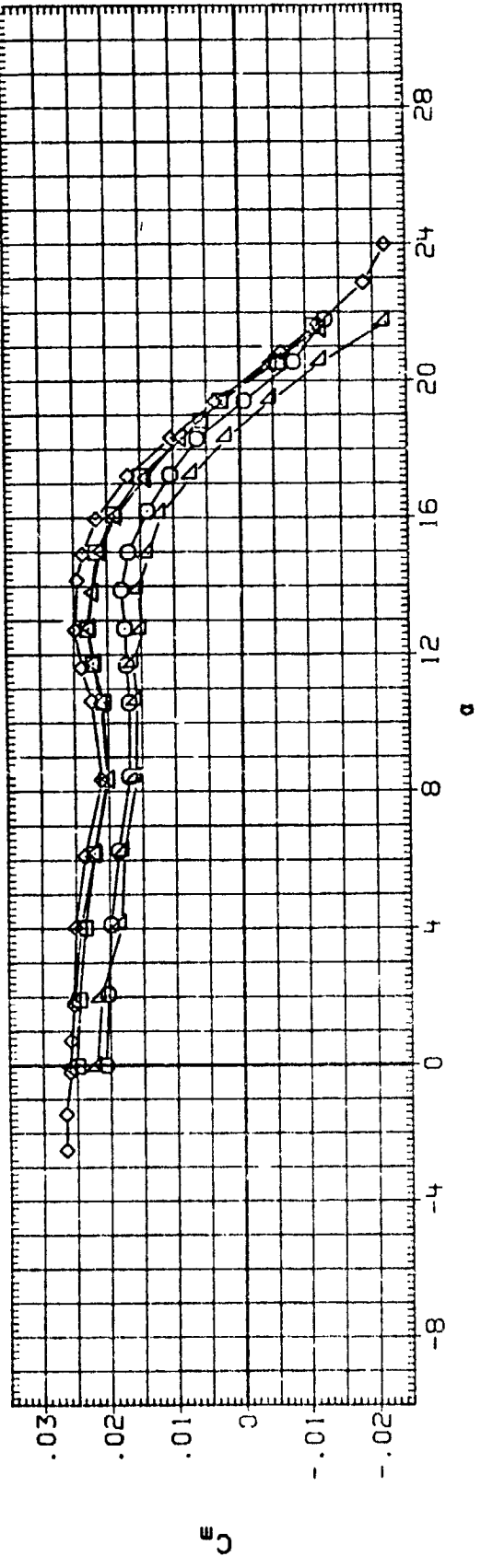


FIGURE 18. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS,
ELEVON= 0 DEGREES

(A) MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	AIRTON	SPDRK	RN/L	REFERENCE INFORMATION
(RJTO39)	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W	-4.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(RJTO35)	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W	-2.000	.000	25.000	12.500	LREF 474.8000 INCHES
(RJTO23)	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W	.000	.000	25.000	12.500	BREF 936.6800 INCHES
(RJTO25)	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W	2.000	.000	25.000	12.500	XMRP 1076.7000 IN. X0
(RJTO28)	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W	4.000	.000	25.000	12.500	YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

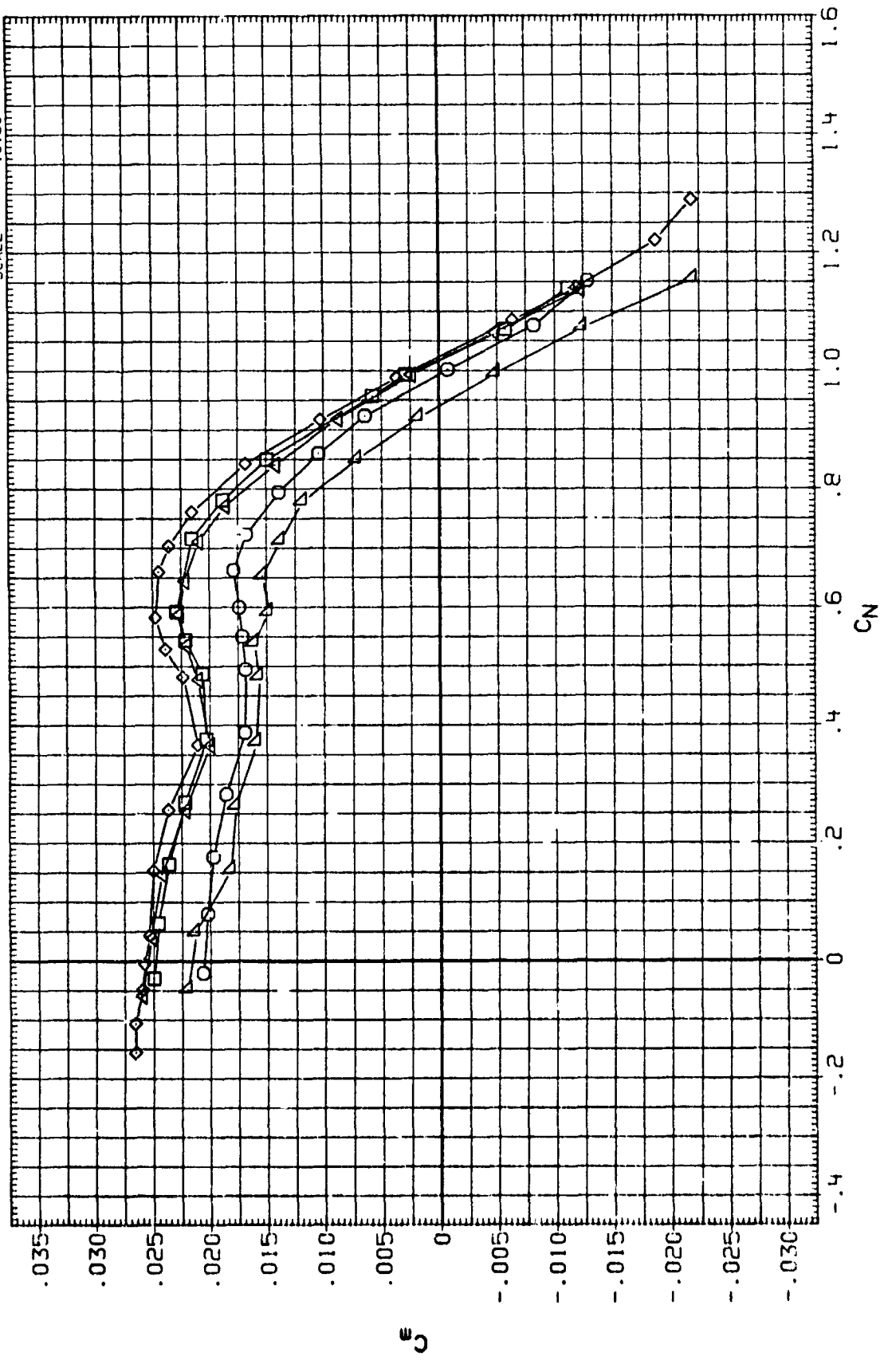


FIGURE 18. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS,
ELEVON= 0 DEGREES
(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	AIRTON	SPOBRK	RN/L	REFERENCE INFORMATION
(RJ0239)	○	LARC LTPT 228(LA518)B26C9E43F8M16N28R5V8M	-4.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(RJ0236)	□	LARC LTPT 228(LA518)B26C9E43F8M16N28R5V8M	-2.000	.000	25.000	12.500	LREF 474.8000 INCHES
(RJ0223)	◇	LARC LTPT 228(LA518)B26C9E43F8M16N28R5V8M	.000	.000	25.000	12.500	BREF 935.6900 INCHES
(RJ0225)	△	LARC LTPT 228(LA518)B26C9E43F8M16N28R5V8M	2.000	.000	25.000	12.500	XMRP 1076.7000 IN. XO
(RJ0228)	▽	LARC LTPT 228(LA518)B26C9E43F8M16N28R5V8M	4.000	.000	25.000	12.500	ZMRP 375.0000 IN. ZO

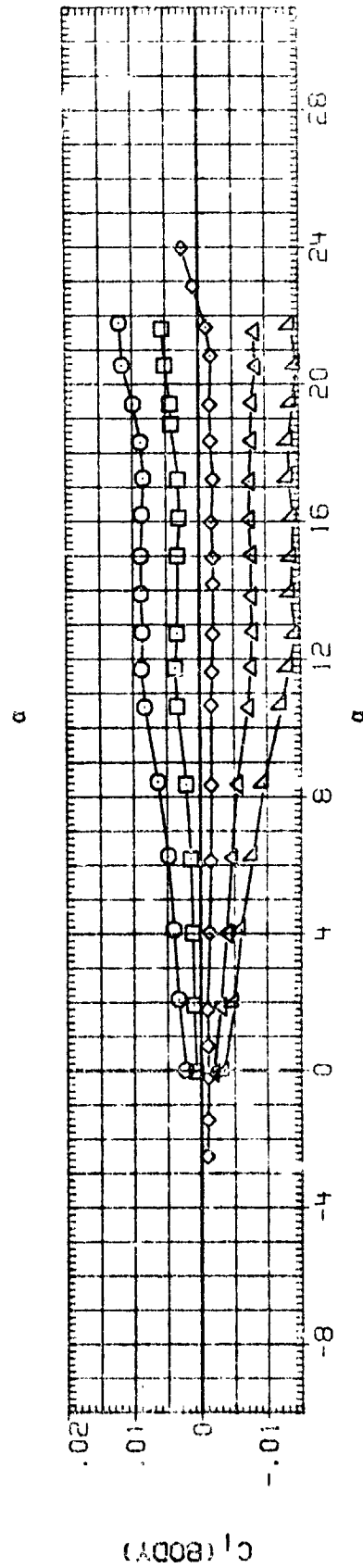
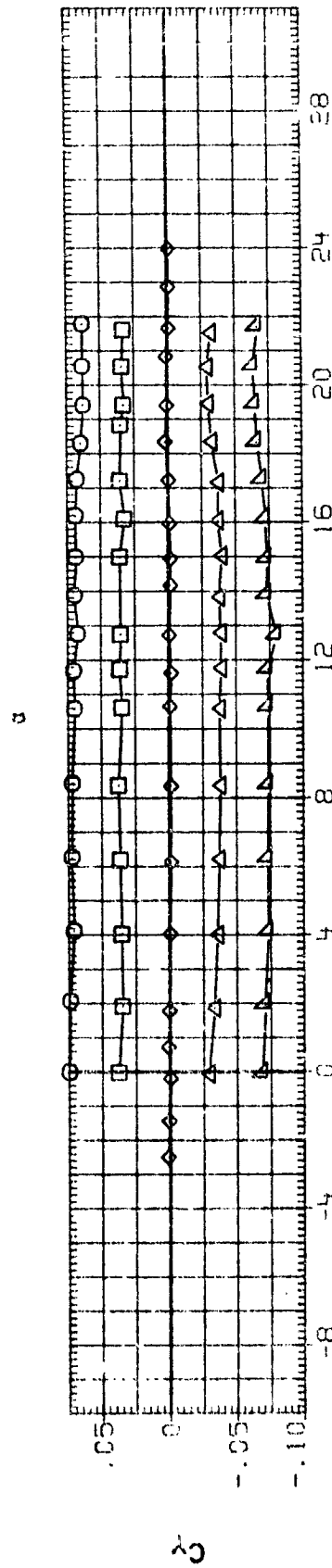
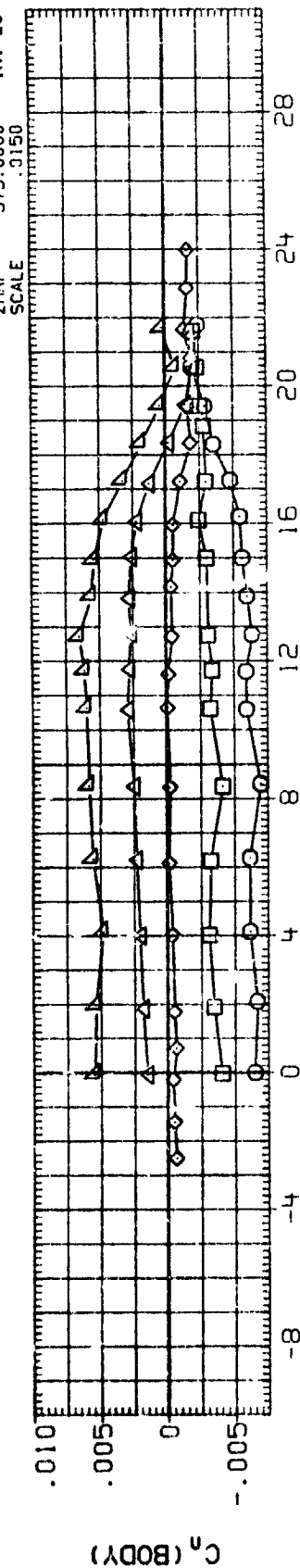


FIGURE 18. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS,
ELEVON= 0 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ETA	AILRON	SPDRK	RN/L	REFERENCE INFORMATION
(SJT039)	□	LAPC LTPT 228(LA518)B26C9E4 3F8M16N28R5V8H	-.000	.000	25.000	12.500	SREF 2690.0000 SO.FT.
(SJT036)	◇	LARC LTPT 228(LA518)B26C9E4 3F8M16N28R5V8H	-.000	.000	25.000	12.500	LREF 474.8000 INCHES
(SJT023)	△	LARC LTPT 228(LA518)B26C9E4 3F8M16N28R5V8H	.000	.000	25.000	12.500	BREF 936.6800 INCHES
(SJT025)	△	LARC LTPT 228(LA518)B26C9E4 3F8M16N28R5V8H	2.000	.000	25.000	12.500	XMRP 1076.7000 IN. XO
(SJT028)	△	LARC LTPT 228(LA518)B26C9E4 3F8M16N28R5V8H	4.000	.000	25.000	12.500	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO

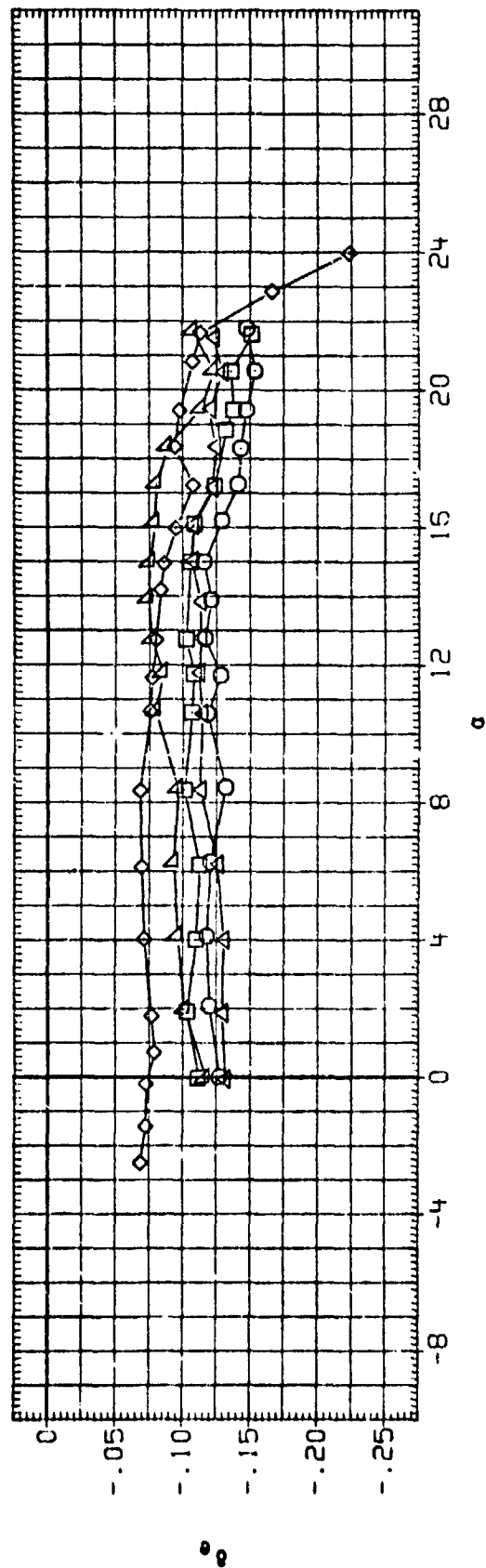
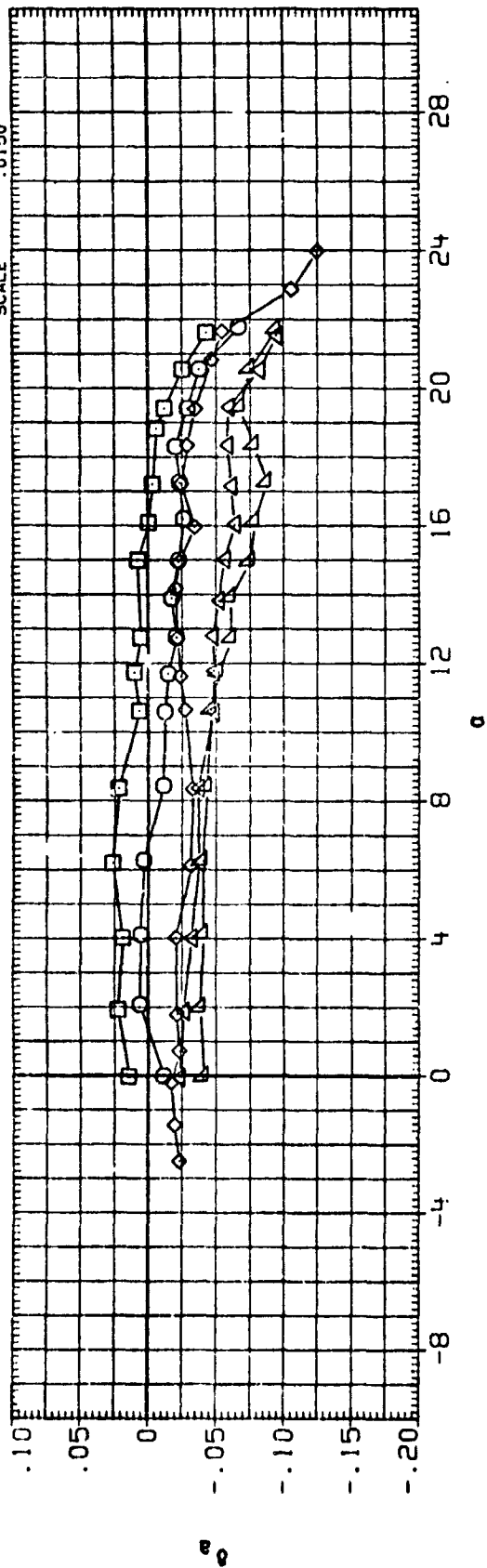


FIGURE 18. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS,
ELEVON= 0 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	AILR/N	SPDRK	RN/L	REFERENCE INFORMATION
(RJT037)	○	LARC LTPT 228(LA6'B)B26C9E43F8M16N28R5VBH	-4.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(RJT033)	□	LARC LTPT 228(LA6'B)B26C9E43F8M16N28R5VBH	.000	.000	25.000	13.000	LREF 474.8000 INCHES
(RJT027)	◇	LARC LTPT 228(LA6'B)B26C9E43F8M16N28R5VBH	4.000	.000	25.000	12.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

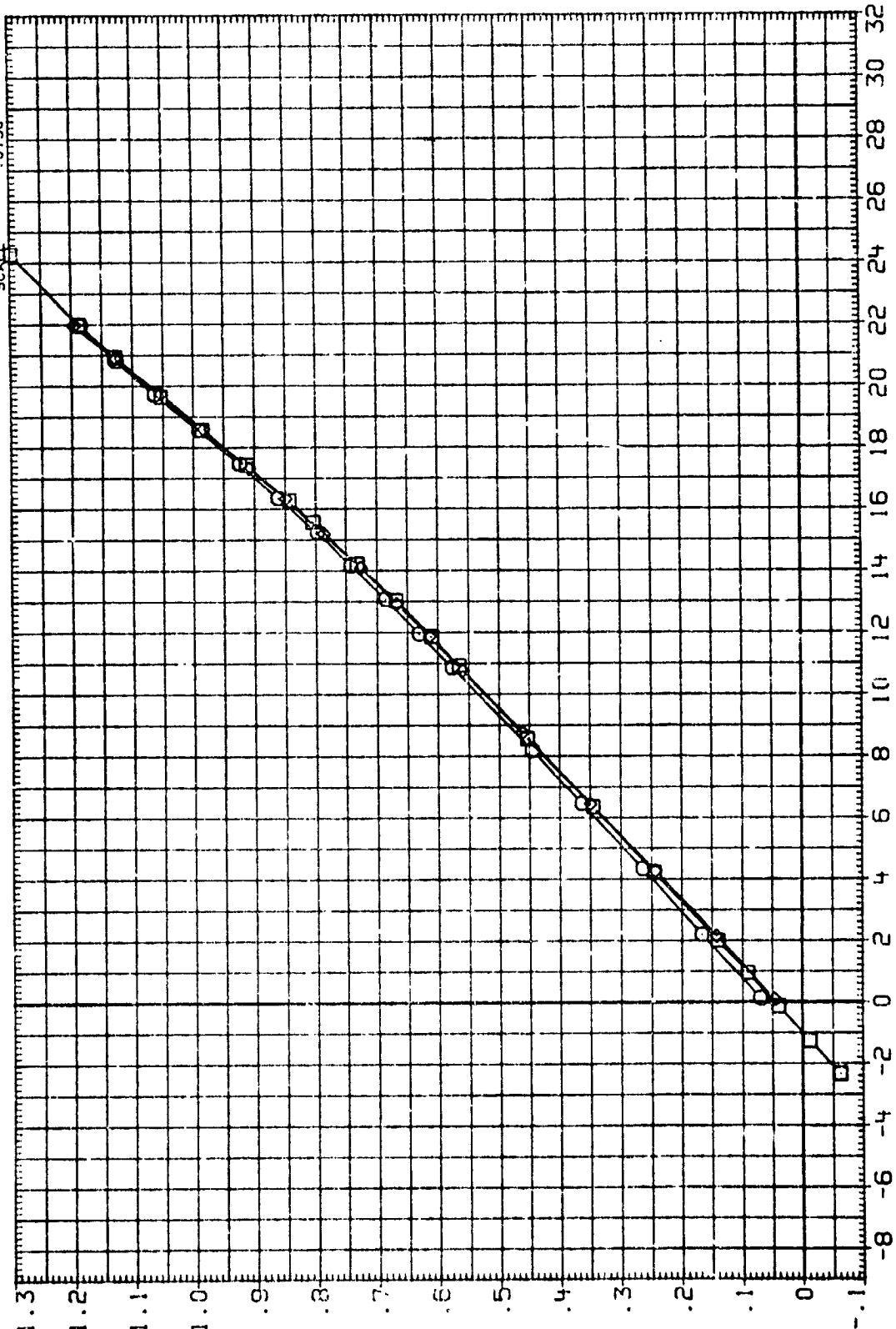


FIGURE 19. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS.
ELEVON= 5 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCR.	BETA	AILRON	SPDRK	RN/L	REFERENCE INFORMATION
(RJ037)	□	LARC LTPT 228(LA518)B26	-4.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(RJ033)	◇	LARC LTPT 228(LA518)B26C9E43F8416N28R5V8H	.000	.000	25.000	13.000	LREF 474.8000 INCHES
(RJ027)	◇	LARC LTPT 228(LA518)B26C9E43F8416N28R5V8H	4.000	.000	25.000	12.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

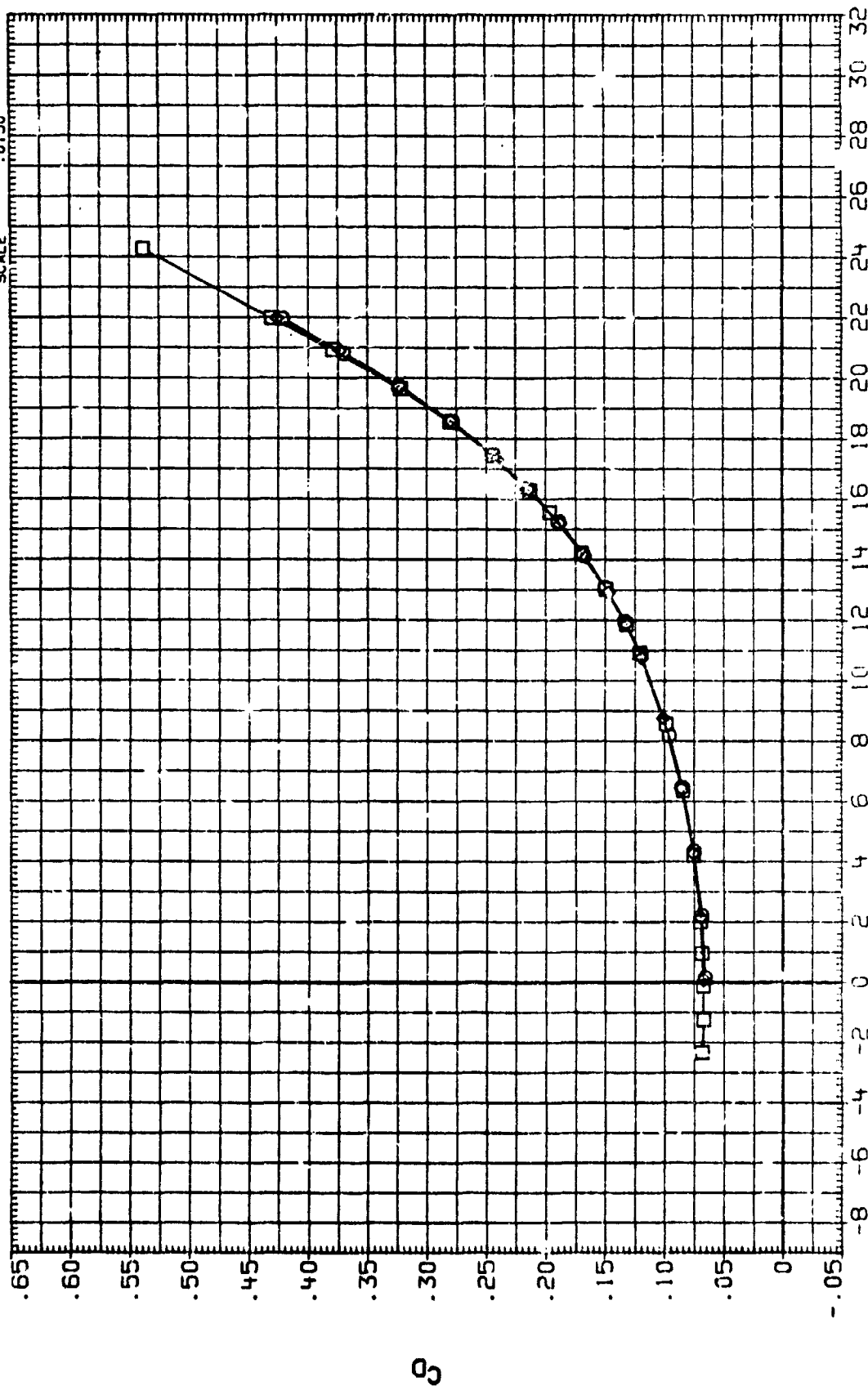


FIGURE 19. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS.
ELEVON= 5 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	AILRON	SPDRK	RN/L	REFERENCE INFORMATION
(RJ1037)	○	LARC LTPT 228(LA518)B26C9E43F8M16N2BR5V8W	-4.000	.000	25.000	12.500	SREF 2690.0000 50. FT.
(RJ1033)	◇	LARC LTPT 228(LA518)B26C9E43F8M16N2BR5V8W	.000	.000	25.000	13.000	LREF 474.8000 INCHES
(RJ1027)	◇	LARC LTPT 228(LA518)B26C9E43F8M16N2BR5V8W	4.000	.000	25.000	12.500	BREF 936.6800 INCHES
							XMRP 1076.7030 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

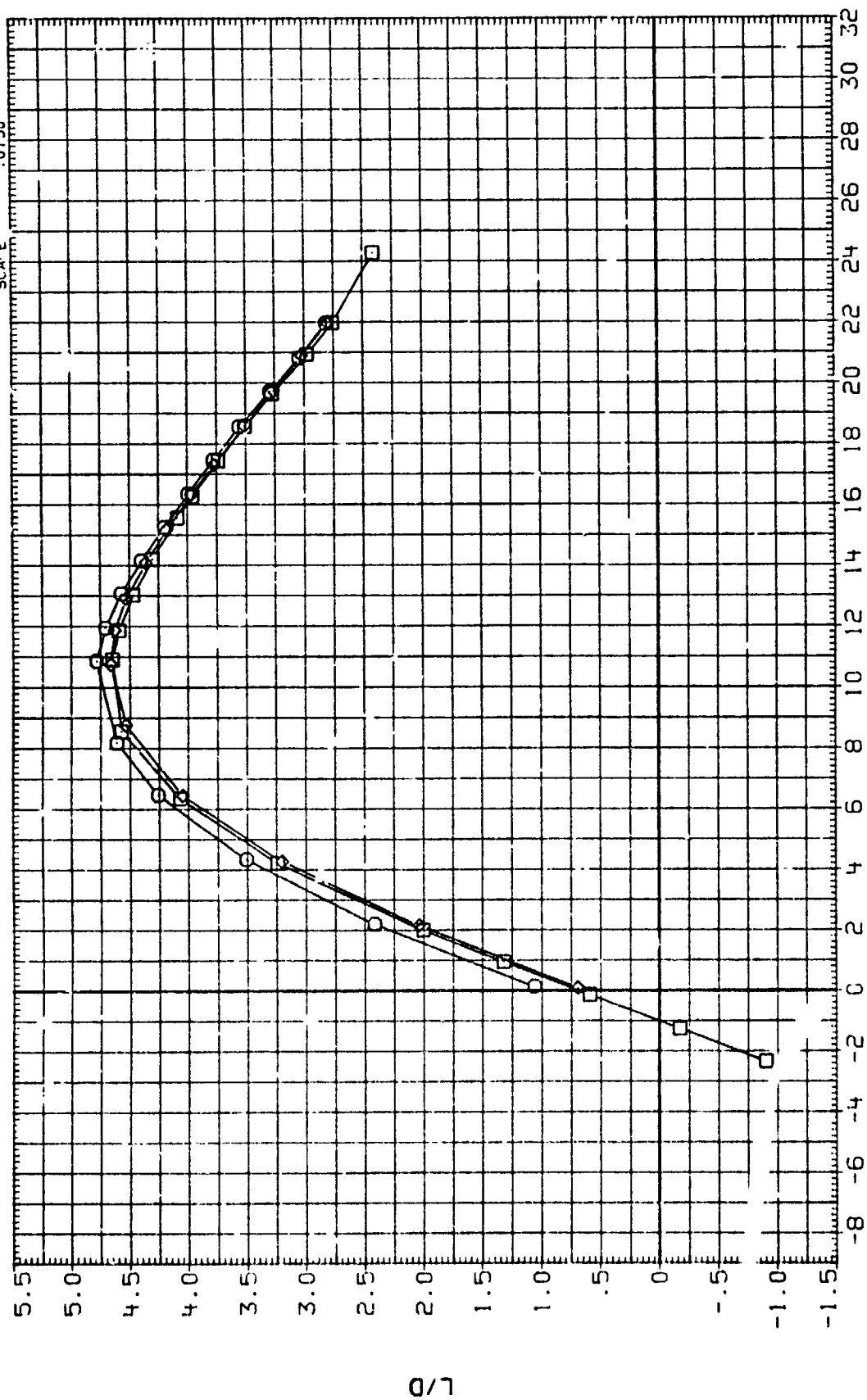


FIGURE 19. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS.
ELEVON= 5 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ATLON	SPDRK	RN/L	REFERENCE INFORMATION
(RJ1037)	○	LARC LPT 228(LAS1B)B26C9E43FBH16N28R5VBW	-4.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(RJ1033)	◇	LARC LPT 228(LAS1B)B26C9E43FBH16N28R5VBW	.000	.000	25.000	13.000	LREF 474.8000 INCHES
(RJ1027)	□	LARC LPT 228(LAS1B)B26C9E43FBH16N28R5VBW	.000	.000	25.000	12.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

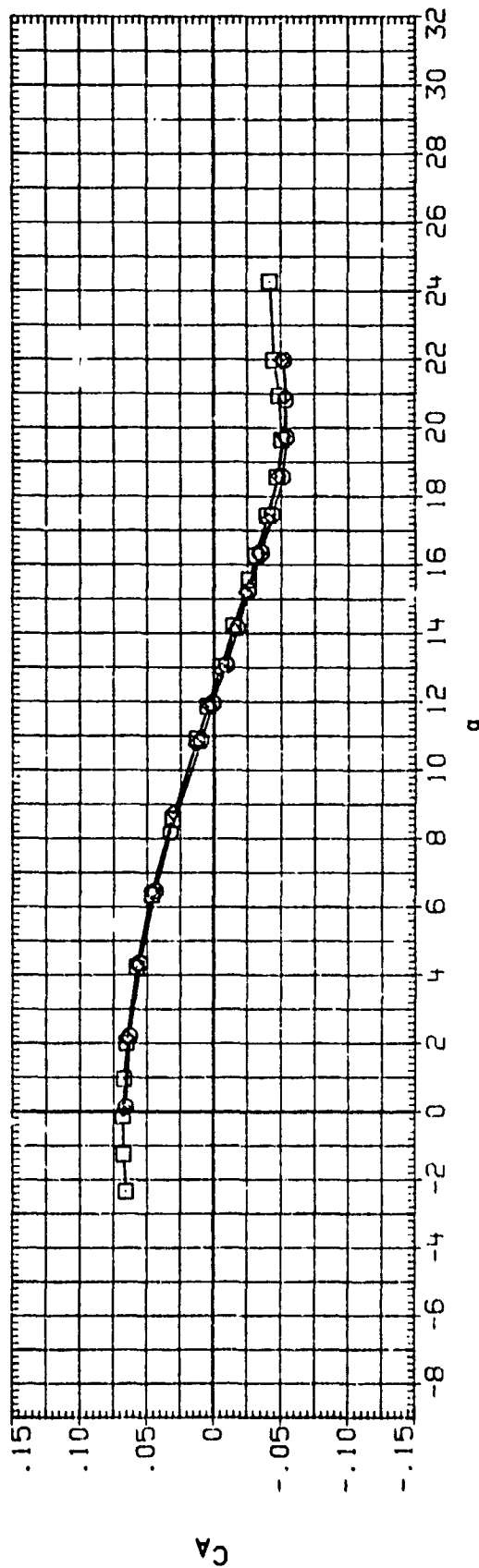
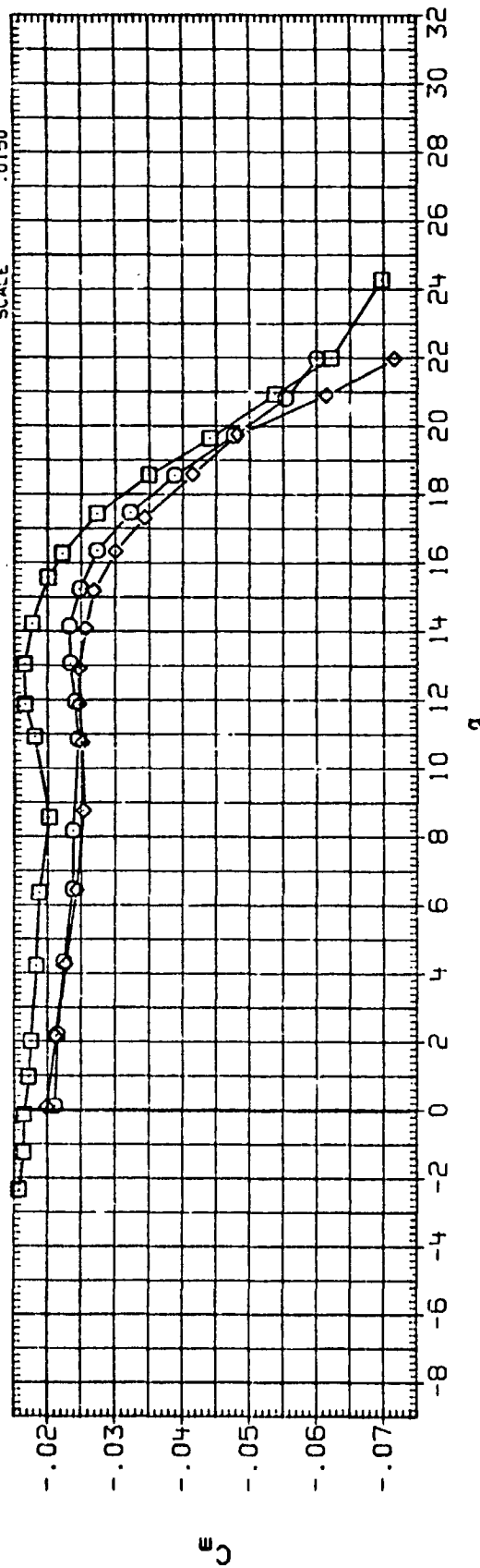


FIGURE 19. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS,
ELEVON= 5 DEGREES

(ATTACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	AILRON	SPDRK	RN/L	REFERENCE INFORMATION
(RJ1037)	○	LARC LTPT 228(LAS18)B26C9E43FBM16N28R5V8W	-4.000	.000	25.000	12.500	SREF 2890.0000 SQ.FT.
(RJ1033)	□	LARC LTPT 228(LAS18)B26C9E43FBM16N28R5V8W	.000	.000	25.000	13.000	LREF 474.8000 INCHES
(RJ1027)	◇	LARC LTPT 228(LAS18)B26C9E43FBM16N28R5V8W	4.000	.000	25.000	12.500	SREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

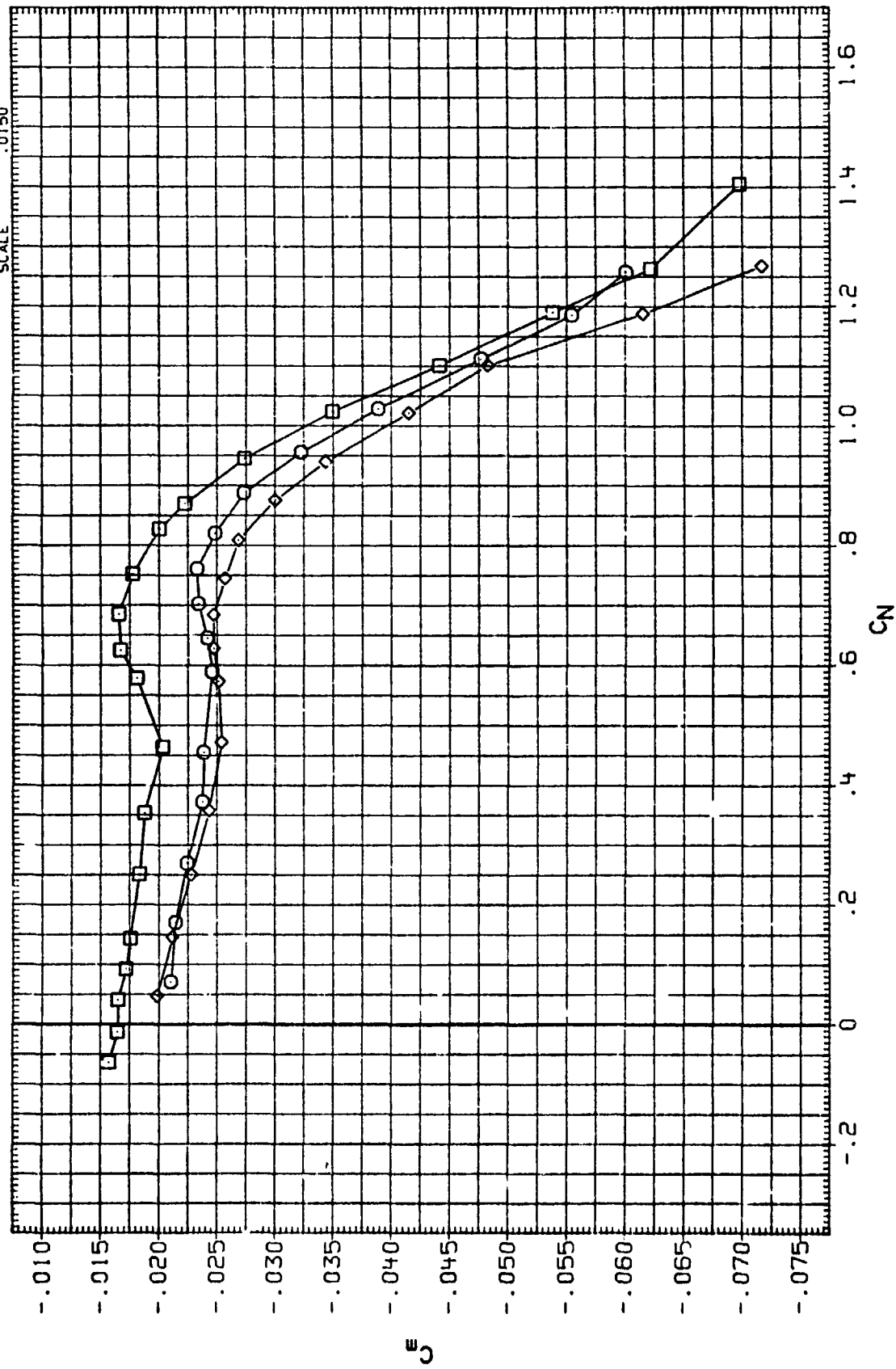


FIGURE 19. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS,
ELEVON= 5 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	AILRON	SPDRK	RN/L	REFERENCE INFORMATION
(RJT037)	○	LARC LTPT 228(LA61B)B26C9C43FBM16N28R5V8W	-4.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(RJT033)	□	LARC LTPT 228(LA61B)B26C9C43FBM16N28R5V8W	.000	.000	25.000	13.000	LREF 474.8000 INCHES
(RJT027)	◇	LARC LTPT 228(LA61B)B26C9C43FBM16N28R5V8W	4.000	.000	25.000	12.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

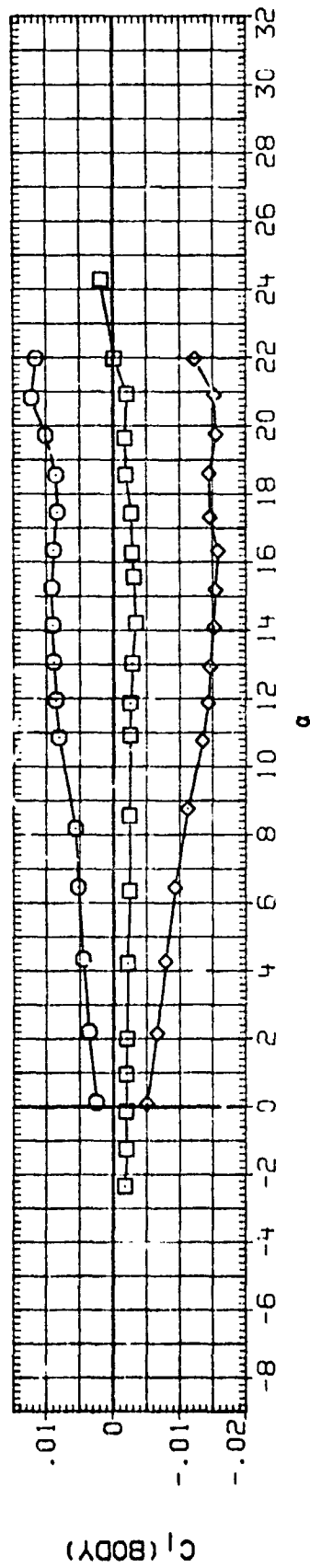
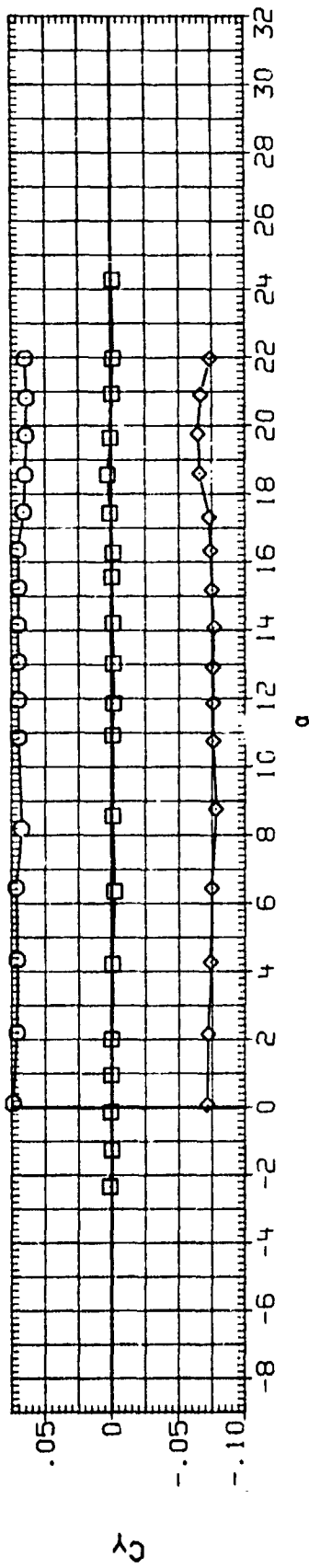
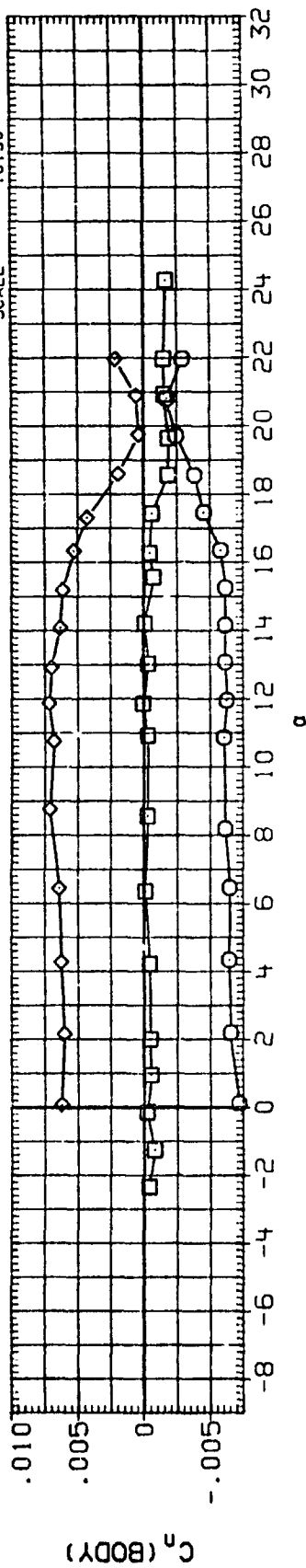


FIGURE 19. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS,
ELEVON= 5 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	AILRON	SPDRK	RN/L	REFERENCE INFORMATION
(SJT037)	○	LARC LTPT 228(LA61B)B26C9E43FBM16A28R5V8M	-4.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(SJT033)	□	LARC LTPT 228(LA61B)B26C9E43FBM16A28R5V8M	.000	.000	25.000	13.000	LREF 474.8000 INCHES
(SJT027)	◇	LARC LTPT 228(LA61B)B26C9E43FBM16A28R5V8M	4.000	.000	25.000	12.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

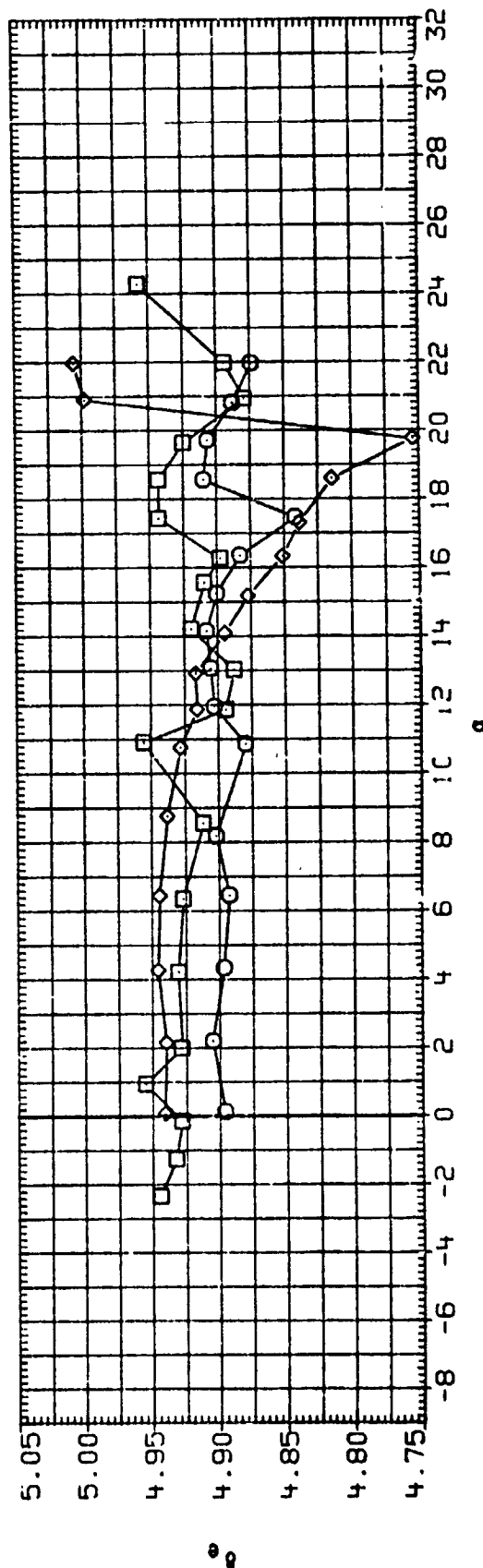
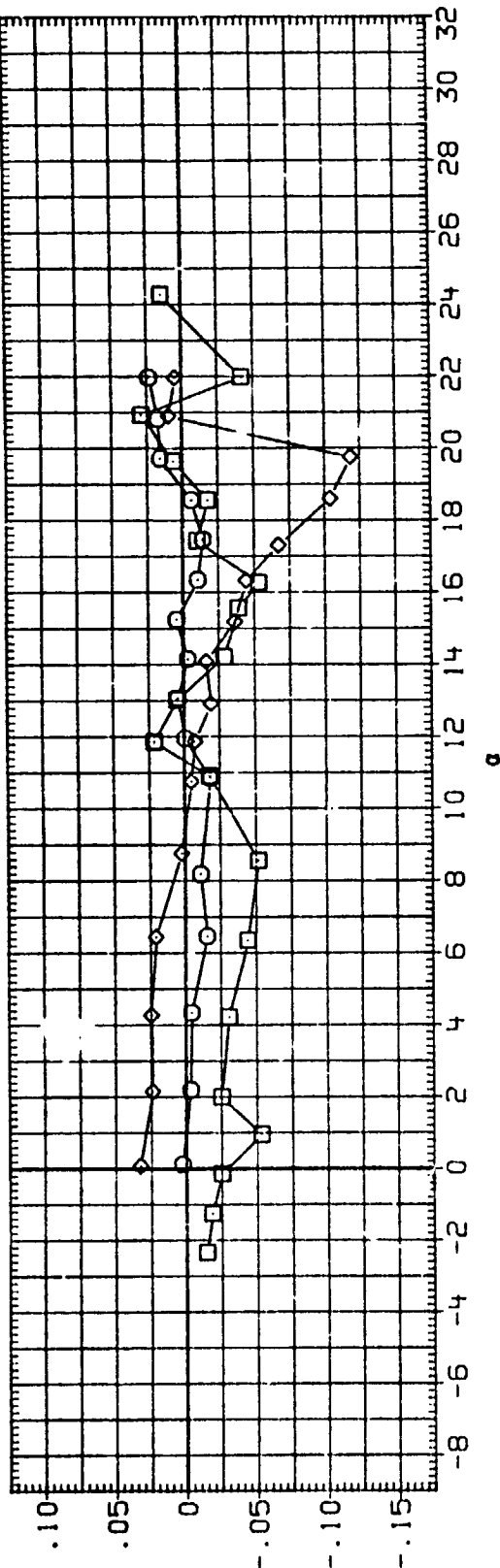


FIGURE 19. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS,
ELEVON= 5 DEGREES

(A) MACH = .20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	AILRON	SPDBRK	RN/L	REFERENCE INFORMATION	
(RJTO32)	○	LARC LTPT 228(LA618)B26C9E43F8M16A28R5V8W	.000	.000	25.000	12.500	SREF	2690.0000 SQ.FT.
(RJTO26)	□	LARC LTPT 228(LA618)B26C9E43F8M16A28R5V8W	4.000	.000	25.000	12.500	LREF	474.8000 INCHES
							BREF	936.6800 INCHES
							XMRP	1076.7000 IN. XO
							YMRP	.0000 IN. YO
							ZMRP	375.0000 IN. ZO
							SCALE	.0150

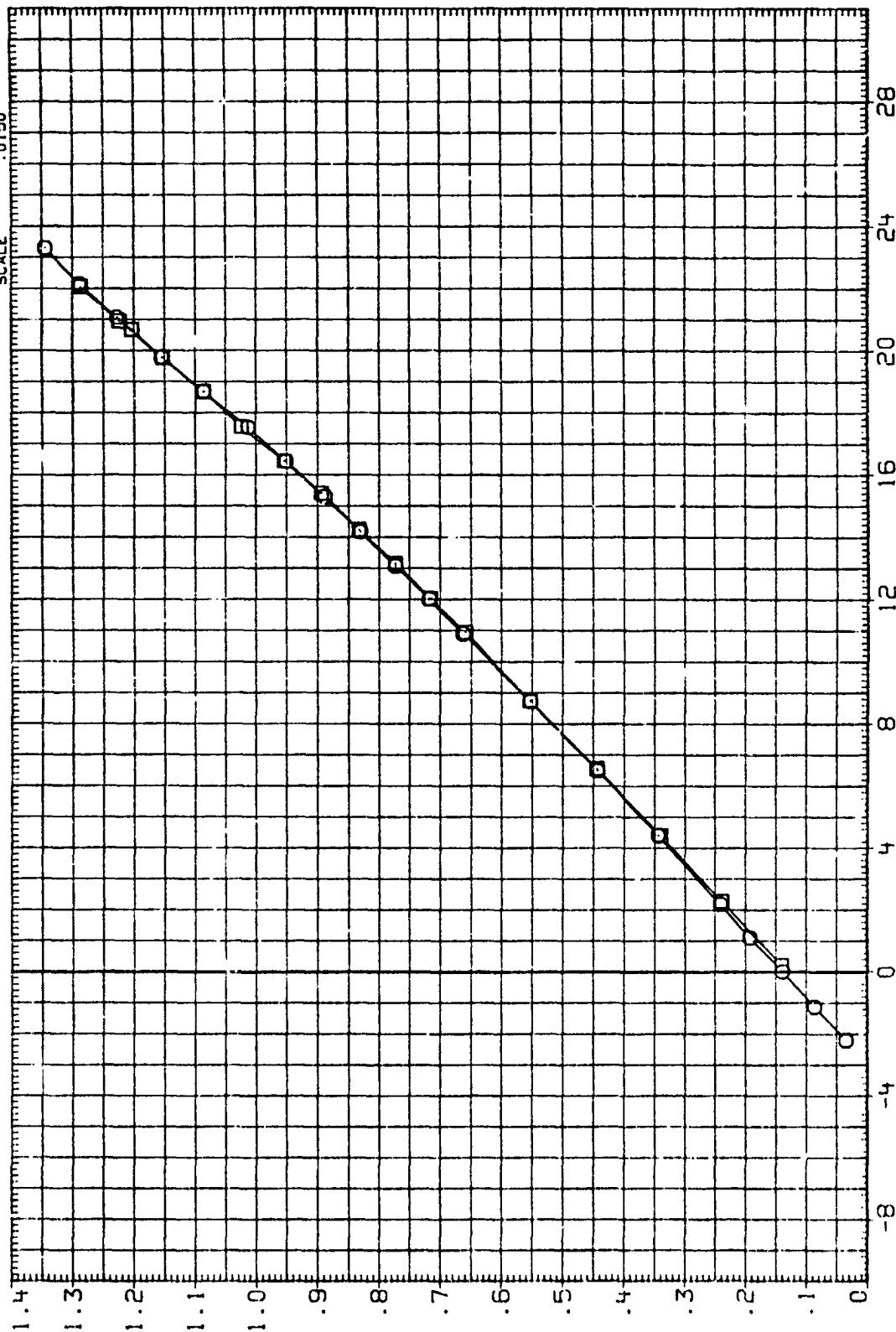


FIGURE 20. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS,
ELEVON= 10 DEGREES

'A' MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	AILRON	SPDRBK	RN/L	REFERENCE INFORMATION
(RJTO32)	○	LARC LTPT 228(LA61B)B26C9E43F8M1E28R5V8M	.000	.000	25.000	12.500	SREF 2650.0000 SQ.FT.
(RJTO26)	□	LARC LTPT 228(LA61B)B26C9E43F8M1E28R5V8M	4.000	.000	25.000	12.500	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

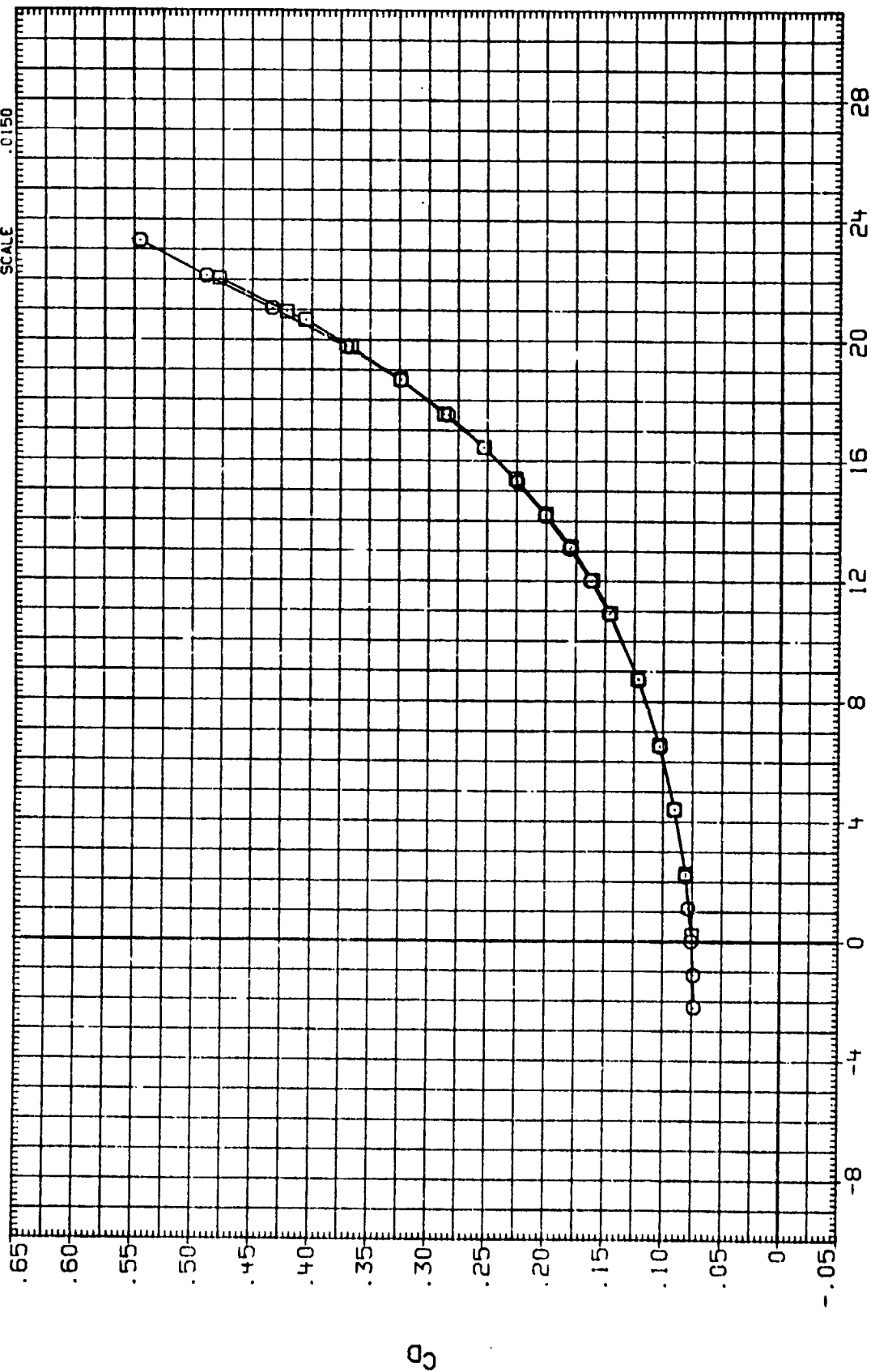


FIGURE 20. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS.
ELEVON= 10 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	AIRLON	SPDRK	RN/L	REFERENCE INFORMATION
(RJT032)	○	LARC LTPT 228(LA61B)B26C9E43F8116N28R5V8H	.000	.000	25.000	12.500	SREF 2690.0000 SO.FT.
(RJT026)	□	LARC LTPT 228(LA61B)B26C9E43F8116N28R5V8H	4.000	.000	25.000	12.500	LREF 474.8000 INCHES
							BREF 536.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

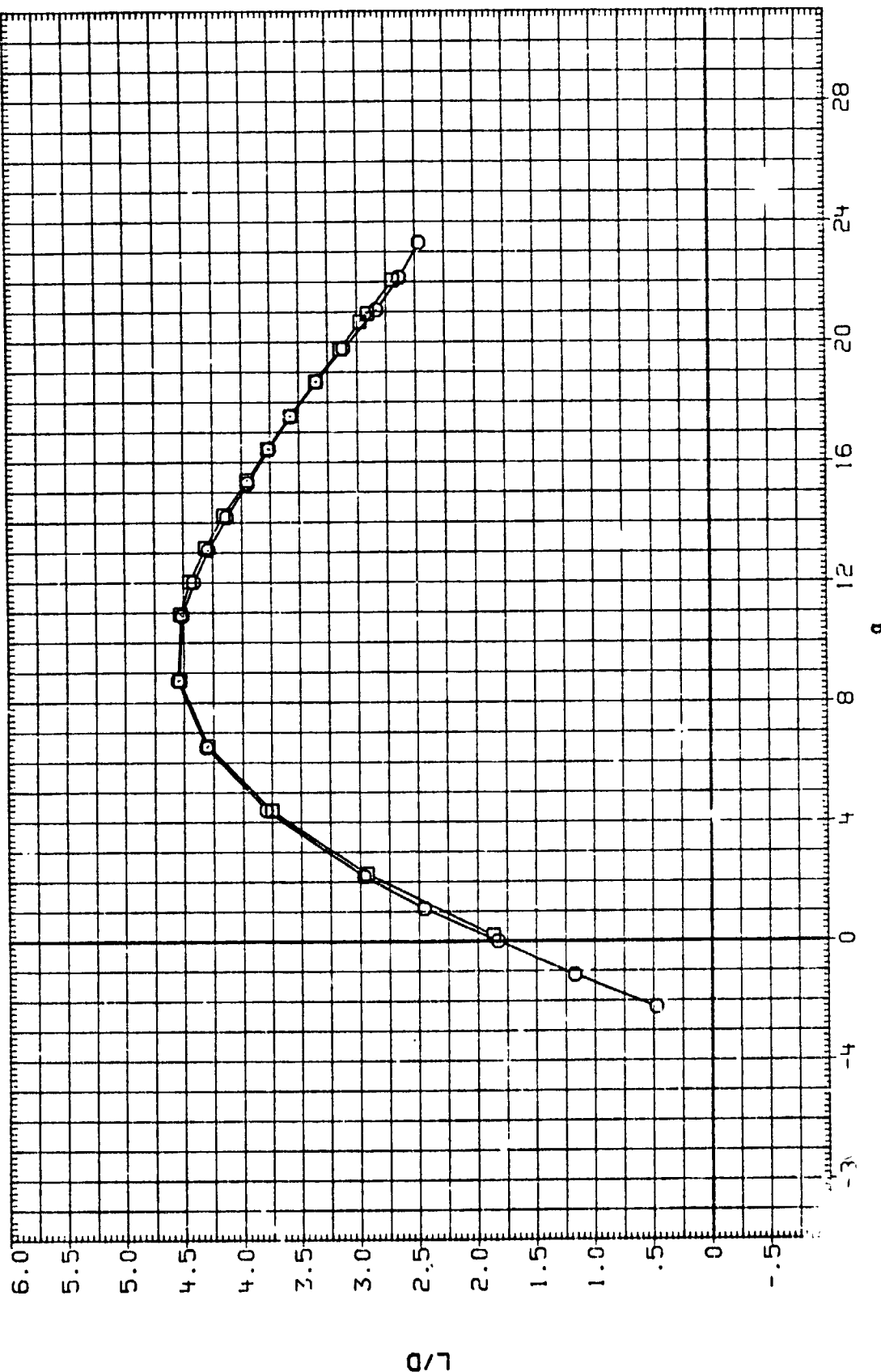


FIGURE 20. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS,
ELEVON= 10 DEGREES

A) MACH = .20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ETA	AILRON	SPOBRK	RN/L	REFERENCE INFORMATION	
(RJ032)	○	LARC LTPT 228(LA51B)B26C9E43F8M1E28R5V8W	.000	.000	25.000	12.500	SREF	2690.0000 SQ.FT.
(RJ026)	□	LARC LTPT 228(LA51B)B26C9E43F8M1E28R5V8W	.4.000	.000	25.000	12.500	LREF	474.8000 INCHES
							BREF	936.6800 INCHES
							XMRP	1076.7000 IN. X0
							YMRP	.0000 IN. Y0
							ZMRP	375.0000 IN. Z0
							SCALE	.0152

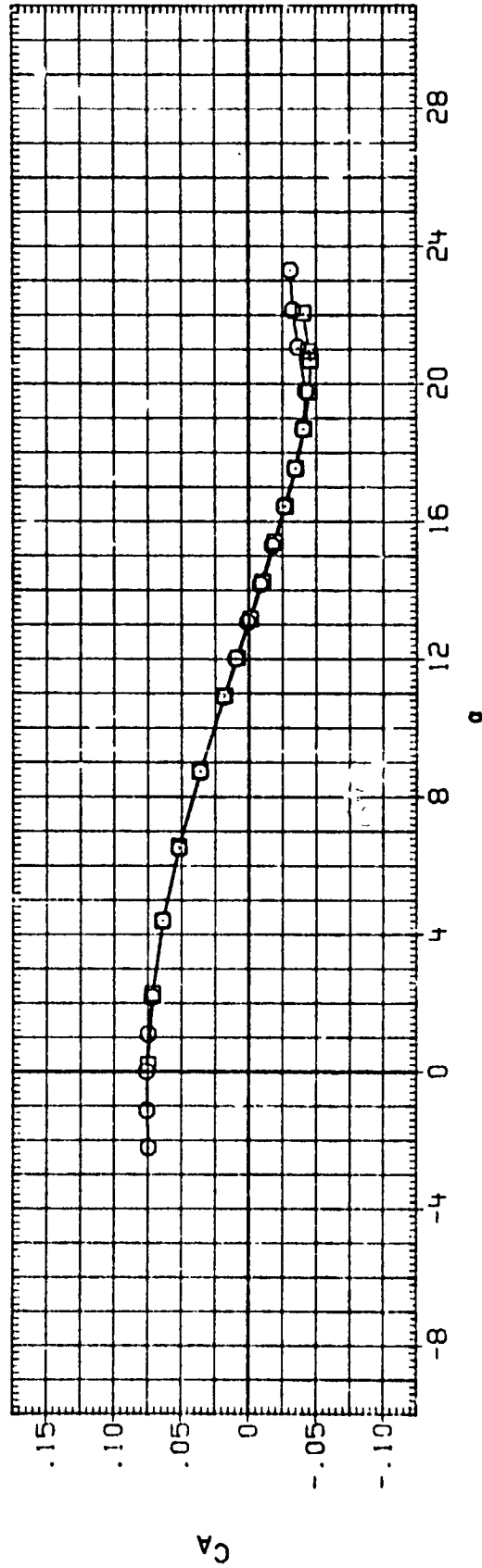
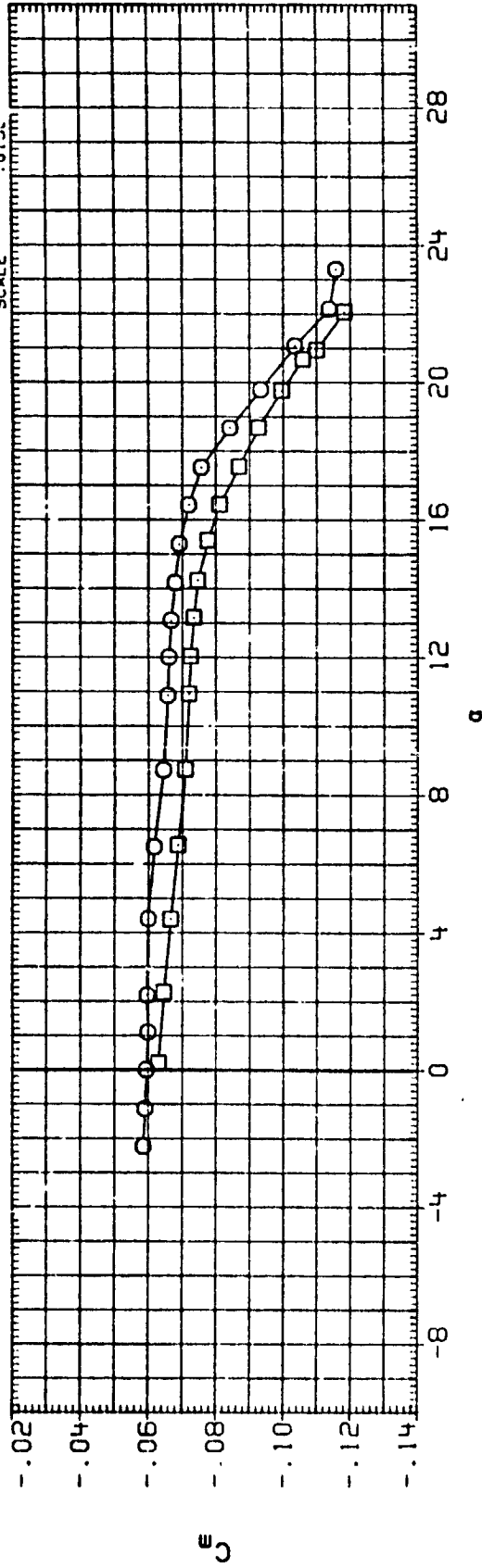


FIGURE 20. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS,
ELEVON= 10 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	AILON	SPDRK	RN/L	REFERENCE INFORMATION
(RJ1032)	○	LARC LTPT 228(LA618)1B26C9E43F8M16N28R5V8W	.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(RJ1036)	□	LARC LTPT 220(LA618)1B26C9E43F8M16N23R5V8W	.000	.000	25.000	12.500	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

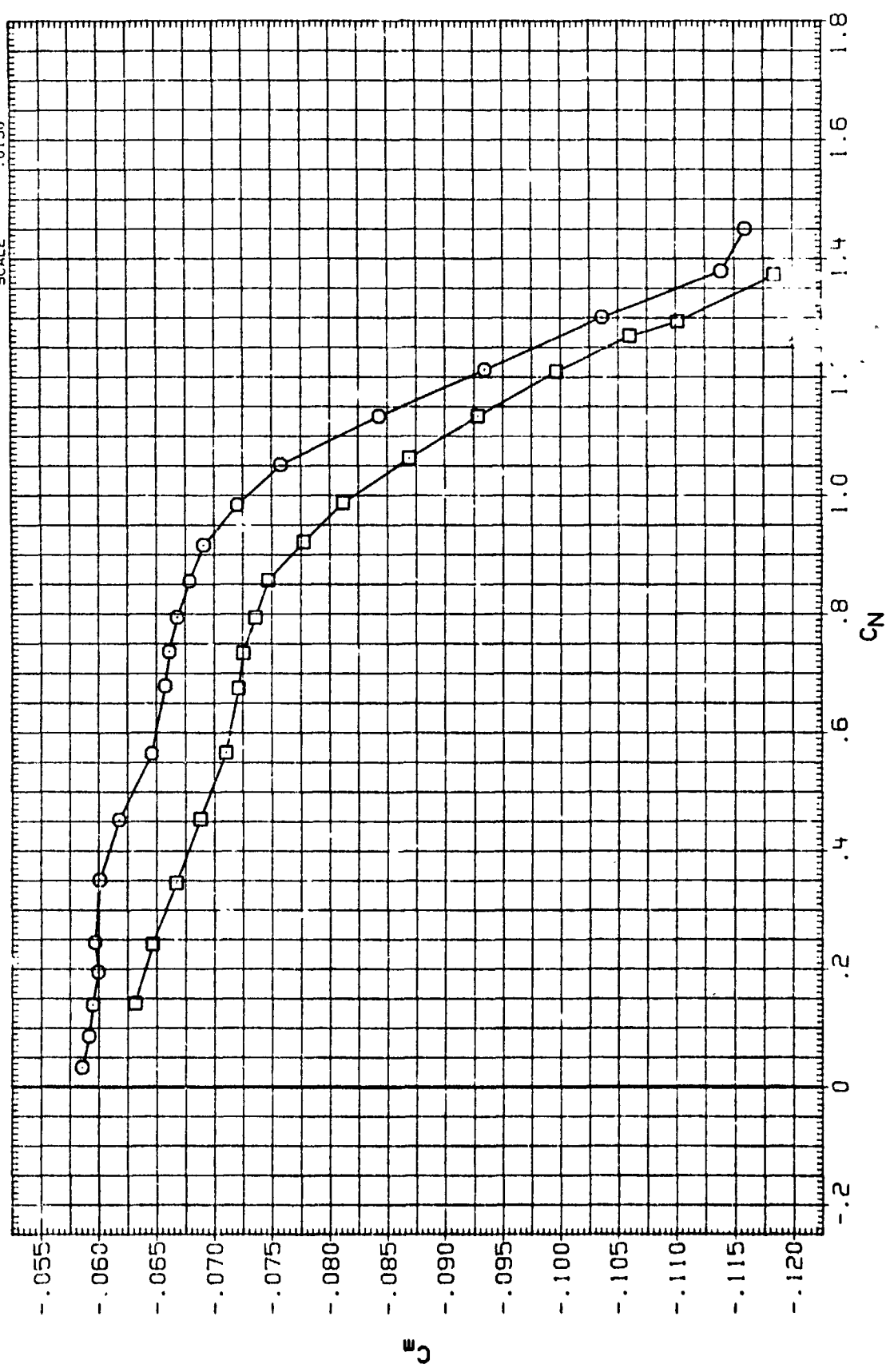


FIGURE 20. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS.
ELEVON= 10 DEGREES

(A) MACH = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RJ1032) \square LARC LTPT 228(LA618)B26C9E4 3F8M16N28R5V8W
 (RJ1026) \square LARC LTPT 228(LA618)B26C9E4 3F8M16N28R5V8W

BETA .000
 .000
 4.000

AILLON .000
 .000
 .000

SPOBRK 25.000
 25.000
 25.000

RN/L 12.500
 12.500
 12.500

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. X
 YMRP .0000 IN. Y
 ZMRP 375.0000 IN. Z
 SCALE .0150

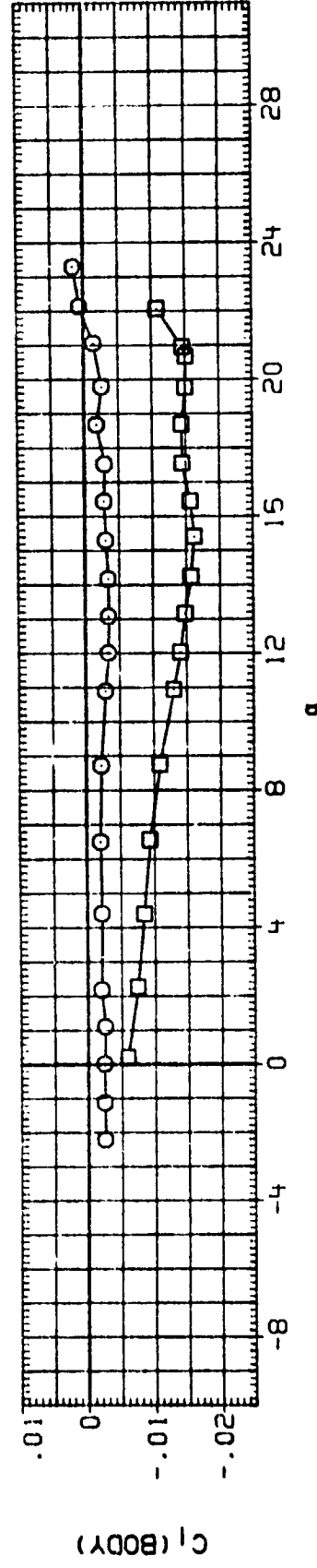
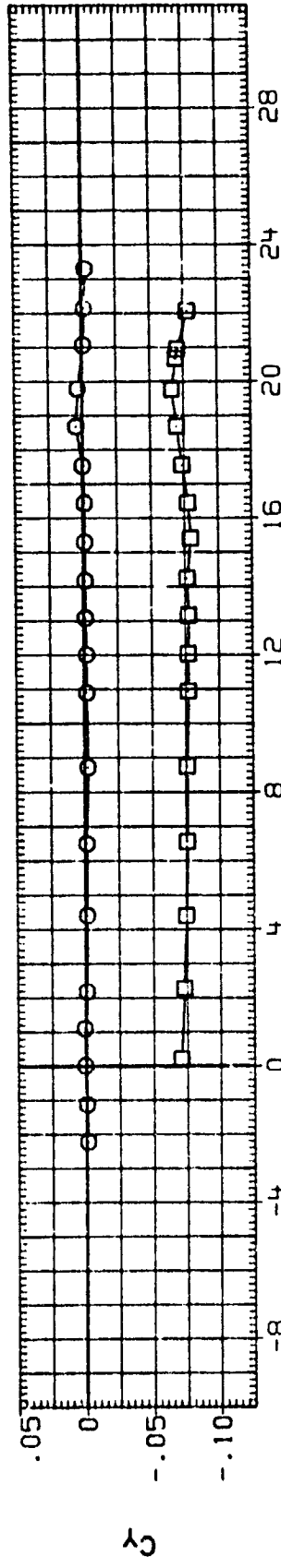
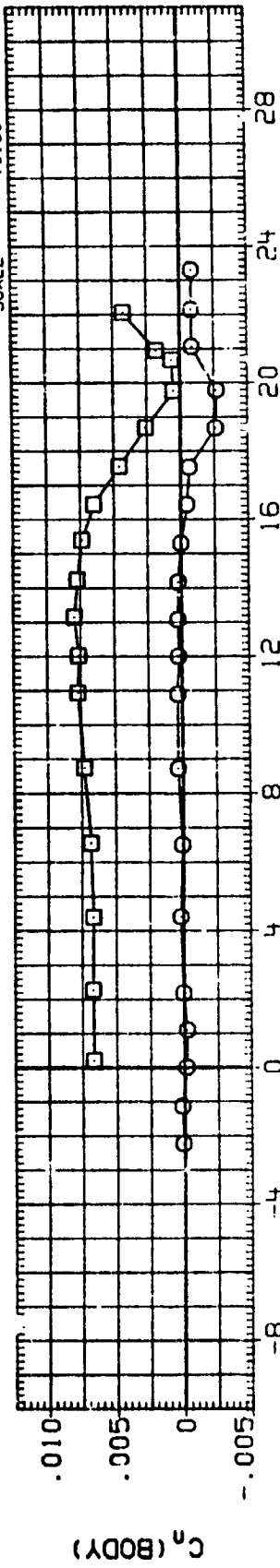


FIGURE 20. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS,
 ELEVON= 10 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	AILRON	SPOBRK	RN/L	REFERENCE INFORMATION
(SJT032)	○	LARC LTPT 228(LA61B)B26C9E43F8M16N28RSV8W	.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(SJT026)	□	LARC LTPT 228(LA61B)B26C9E43F8M16N28RSV8W	.000	.000	25.000	12.500	LREF 474.8000 INCHES
							BREF 336.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

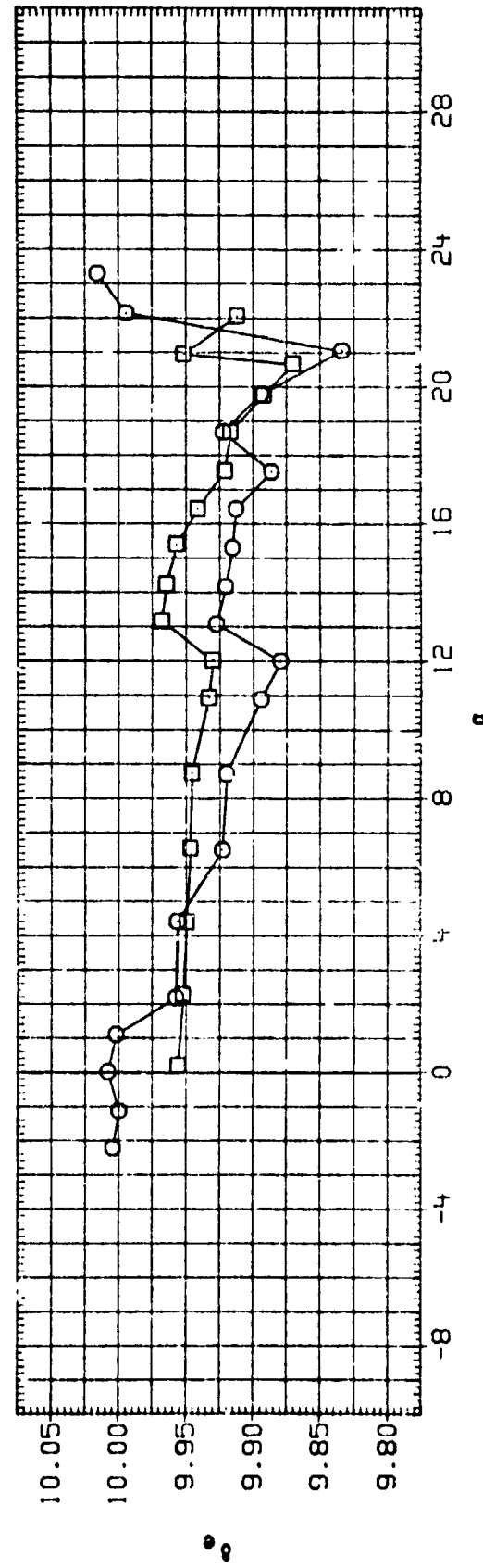
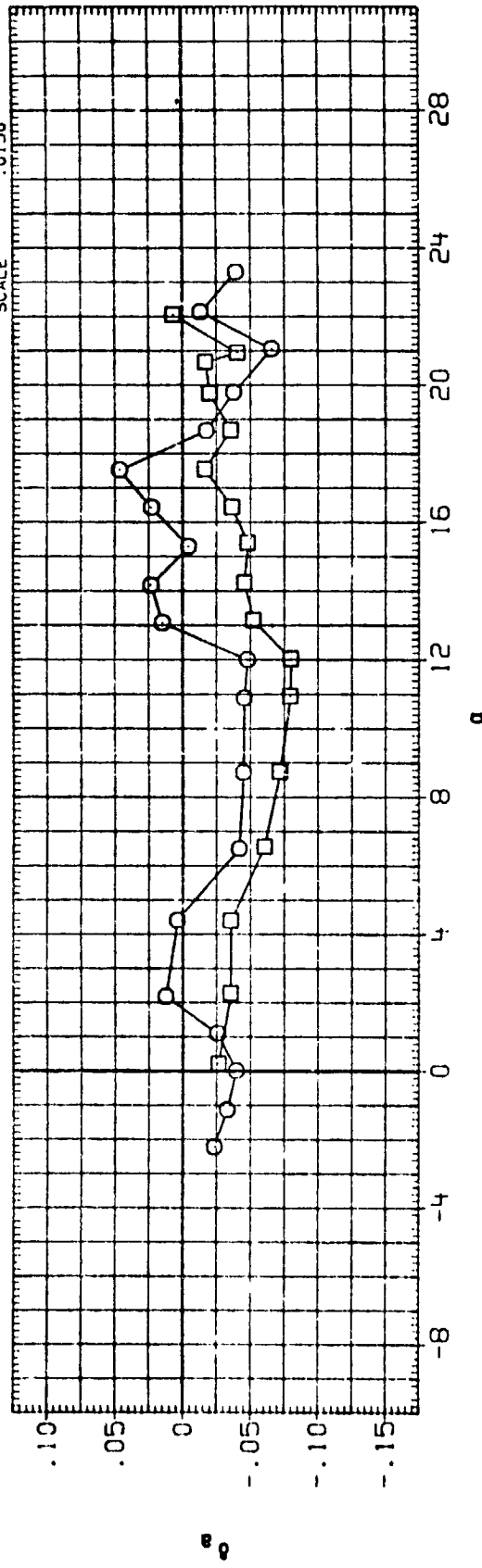


FIGURE 20. EFFECT OF SIDESLIP ON ORBITER AERODYNAMIC CHARACTERISTICS.
ELEVON= 10 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	SPDRBK	RN/L	REFERENCE INFORMATION
(1JT066)	□	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W	.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(1JT067)	○	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W	6.000	.000	25.000	12.500	LREF 474.8000 INCHES
(1JT068)	◇	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W	13.000	.000	25.000	12.500	BREF 936.6800 IN. X0
(1JT069)	△	LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W	19.000	.000	25.000	12.500	XMRP 1076.7000 IN. Y0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

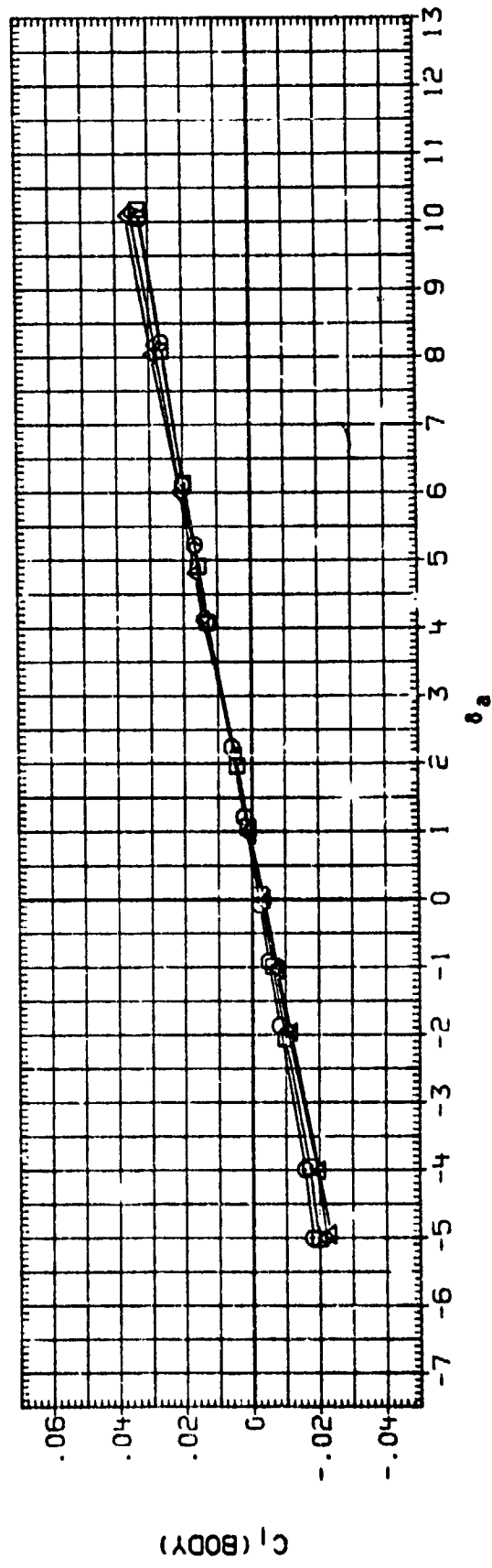
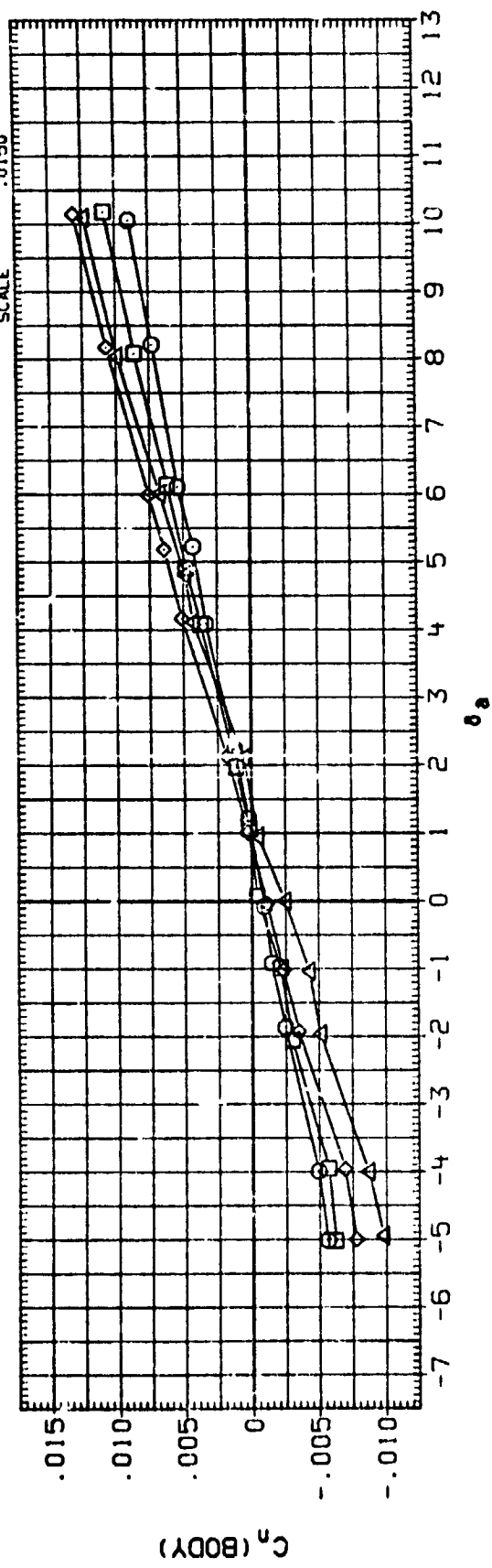


FIGURE 21. AILERON EFFECTIVENESS, ELEVON⁻¹⁰ DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	SPDRK	RN/L	REFERENCE INFORMATION
(TJT066)	○	LARC LTPT 228(LA61B)B26C9EY3F8M16N2BR5VBW	.000	.000	25.000	12.500	SREF 2690.0000 50.FT.
(TJT067)	□	LARC LTPT 228(LA61B)B26C9EY3F8M16N2BR5VBW	.000	.000	25.000	12.500	LREF 474.6000 INCHES
(TJT068)	◇	LARC LTPT 228(LA61B)B26C9EY3F8M16N2BR5VBW	.000	.000	25.000	12.500	BREF 936.6800 INCHES
(TJT069)	△	LARC LTPT 228(LA61B)B26C9EY3F8M16N2BR5VBW	.000	.000	25.000	12.500	XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

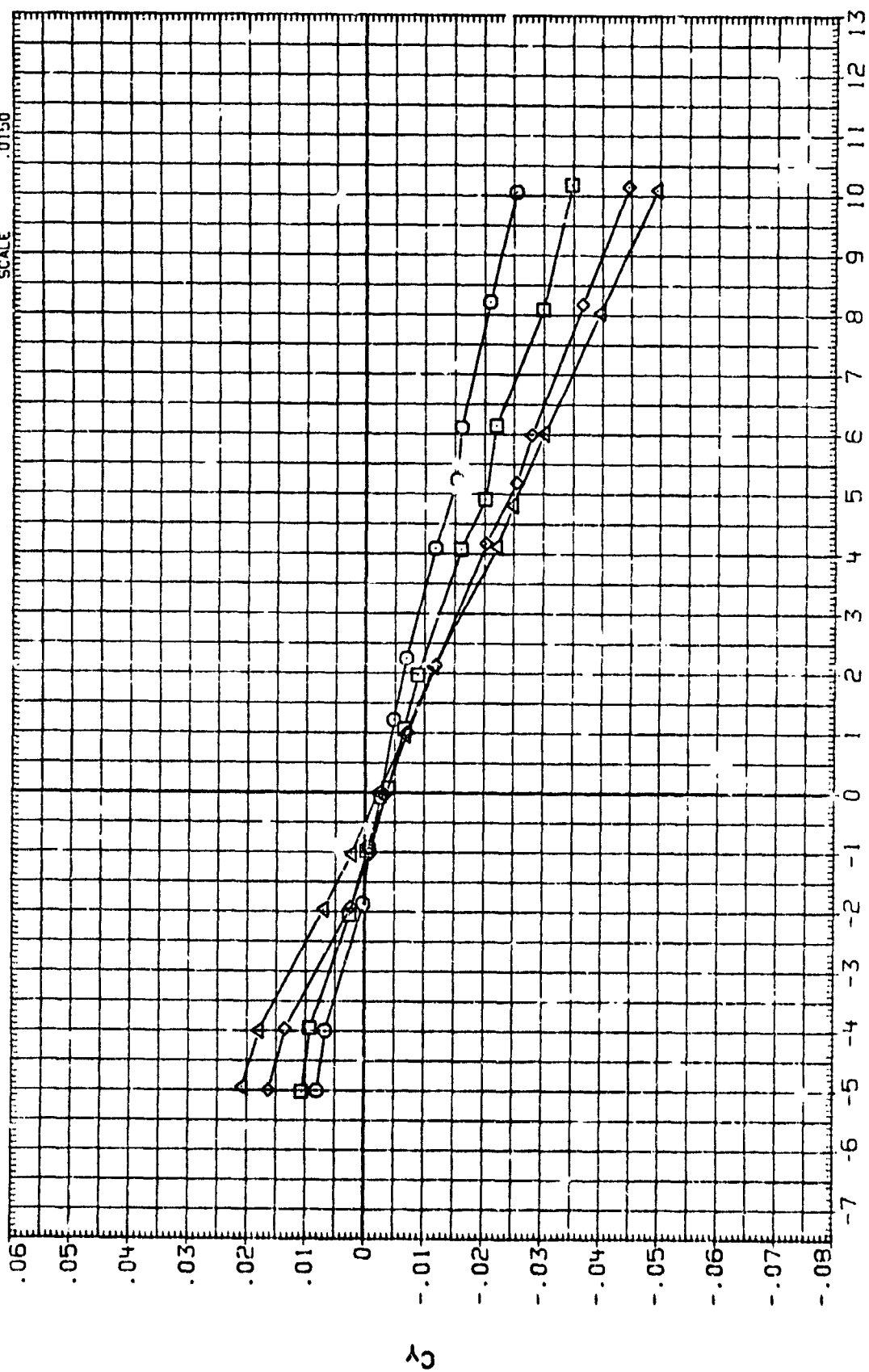


FIGURE 21. AILERON EFFECTIVENESS, ELEVCN= -10 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	SPOBRK	RN/L	REFERENCE INFORMATION
(TJTC66)	○	LARC LTPT 228ILA61B1B2C9E43FBM1GN2R5V8H	.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(TJTC67)	□	LARC LTPT 228ILA61B1B2C9E43FBM1GN2R5V8H	6.000	.000	25.000	12.500	LREF 474.8000 INCHES
(TJTC68)	◇	LARC LTPT 228ILA61B1B2C9E43FBM1GN2R5V8H	13.000	.000	25.000	12.500	BREF 936.6000 INCHES
(TJTC69)	△	LARC LTPT 228ILA61B1B2C9E43FBM1GN2R5V8H	19.000	.000	25.000	12.500	XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE 0.150

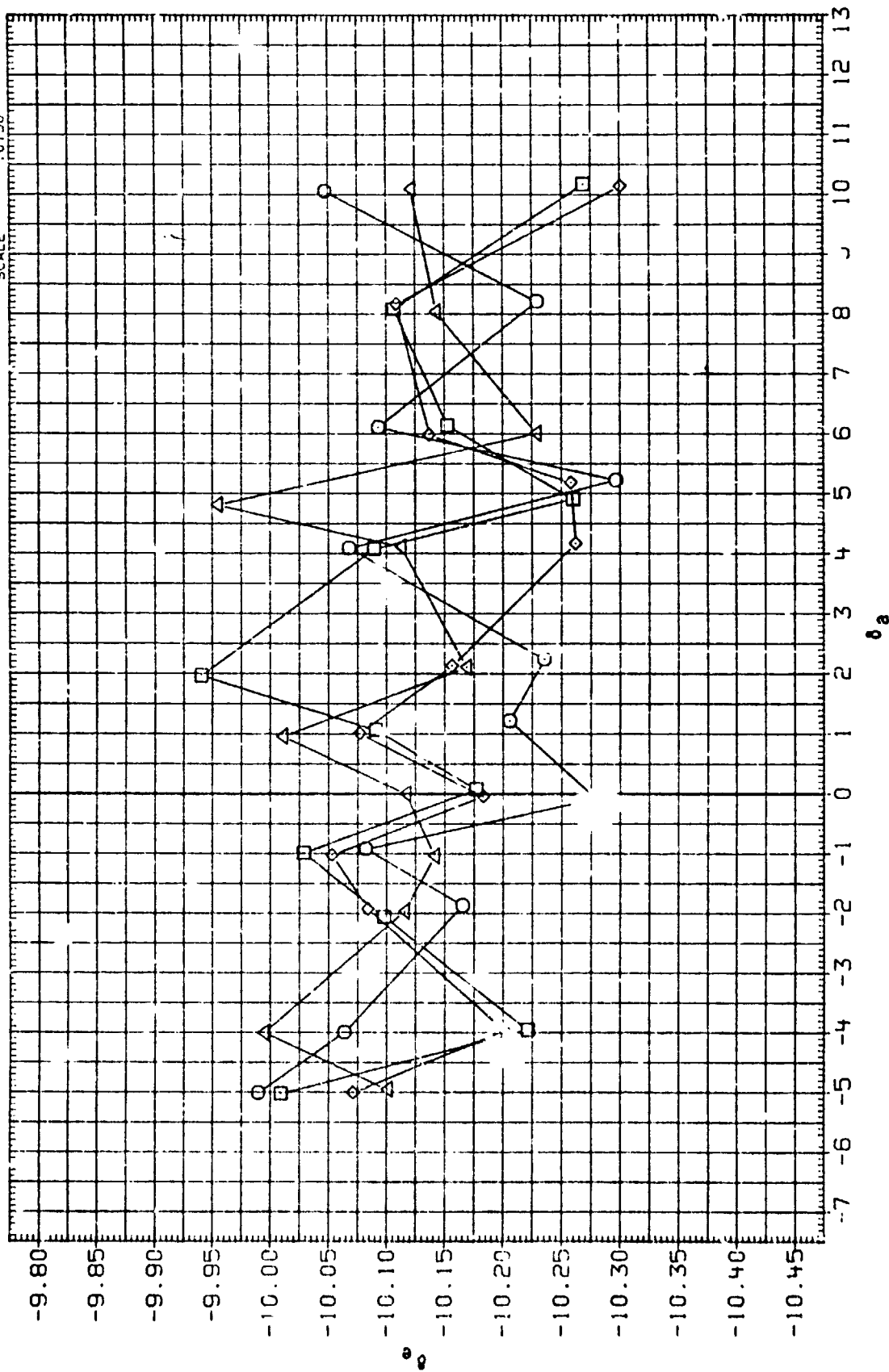


FIGURE 21. AILERON EFFECTIVENESS. ELEVON= -10 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	SPOBRK	RN/L	REFERENCE INFORMATION
(TJT052)	○	LARC LTPT 228(LAS1B)B26C9E43FBM16N28R5V8W	.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(TJT053)	◇	LARC LTPT 228(LAS1B)B26C9E43FBM16N28R5V8W	6.000	.000	25.000	12.500	LREF 474.8000 INCHES
(TJT054)	◇	LARC LTPT 228(LAS1B)B26C9E43FBM16N28R5V8W	13.000	.000	25.000	12.500	BREF 936.6800 INCHES
(TJT055)	△	LARC LTPT 228(LAS1B)B26C9E43FBM16N28R5V8W	19.000	.000	25.000	12.500	XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

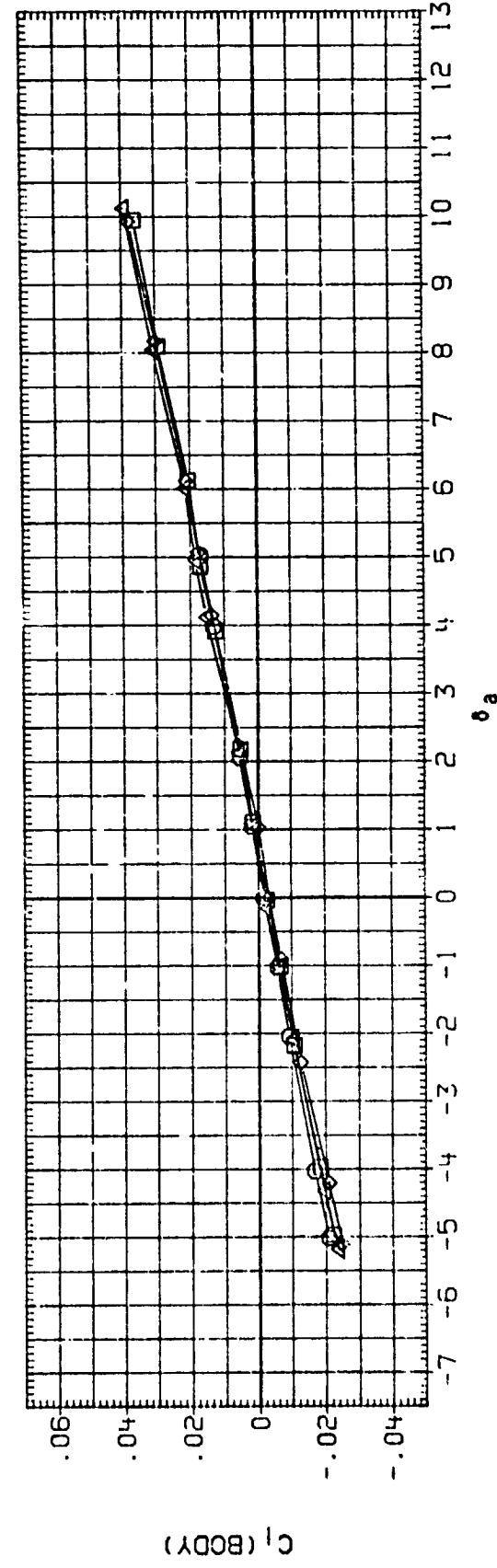
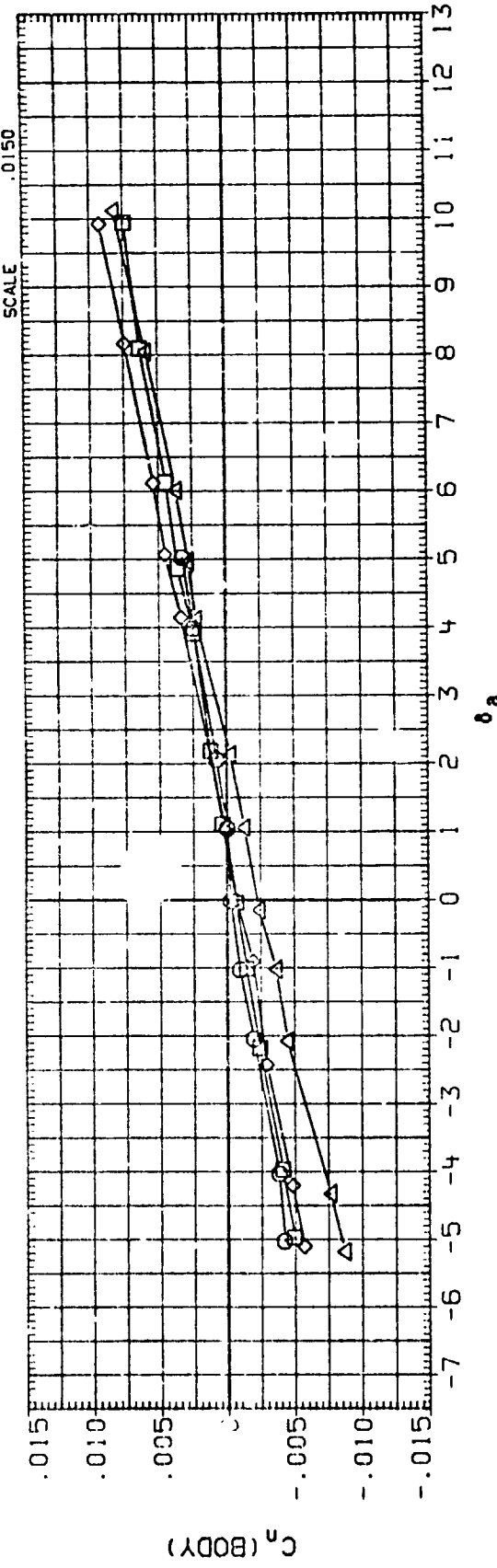


FIGURE 22. AILERON EFFECTIVENESS, ELEVON= 0 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION	ALPHA	BETA	SPDBRK	RN/L	REFERENCE INFORMATION
(TJT062)	○	LARC	LPT 228(LA51B)B26C9E4358M16N28R5V3W	.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(TJT063)	◇	LARC	LPT 228(LA51B)B26C9E4358M16N28R5V3W	.000	.000	25.000	12.500	LREF 474.8000 INCHES
(TJT064)	□	LARC	LPT 228(LA51B)B26C9E4358M16N28R5V3W	.000	.000	25.000	12.500	BREF 936.6800 INCHES
(TJT065)	△	LARC	LPT 228(LA51B)B26C9E4358M16N28R5V3W	.000	.000	25.000	12.500	XMRP 1076.7000 IN. YO
								YMRP .0000 IN. YO
								ZMRP 375.0000 IN. ZO
								SCALE .0150

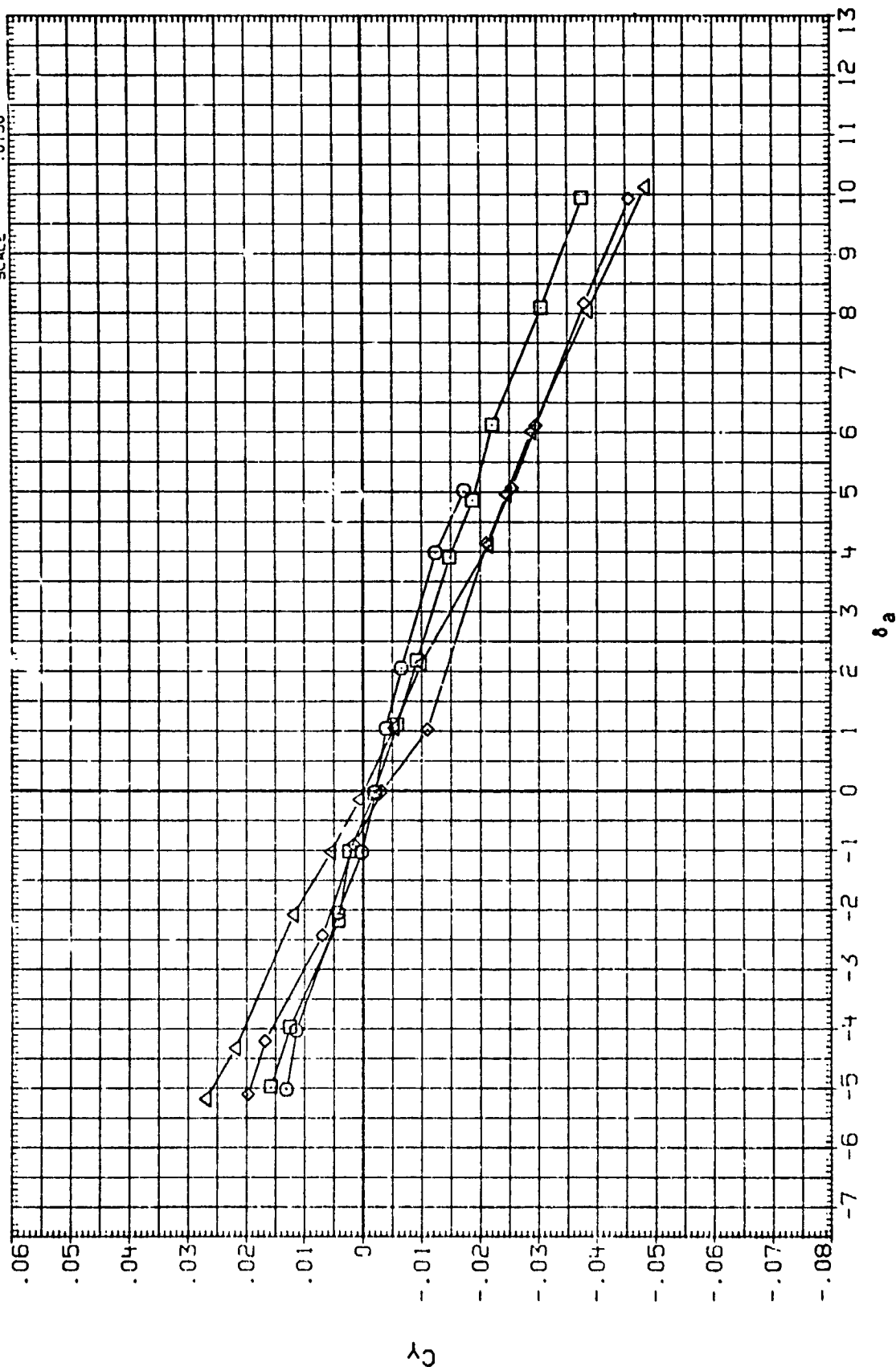


FIGURE 22. AILERON EFFECTIVENESS, ELEVON= 0 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	SPOBRK	RN/L	REFERENCE INFORMATION
(TJT063)	○	LARC LTPT 228(LA618)B26C9E43F8M16N28P5V8W	.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(TJT063)	□	LARC LTPT 228(LA618)B26C9E43F8M16N28P5V8W	6.000	.000	25.000	12.500	LREF 474.8000 INCHES
(TJT064)	◇	LARC LTPT 228(LA618)B26C9E43F8M16N28P5V8W	13.000	.000	25.000	12.500	BREF 935.6800 INCHES
(TJT065)	△	LARC LTPT 228(LA618)B26C9E43F8M16N28P5V8W	19.000	.000	25.000	12.500	XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

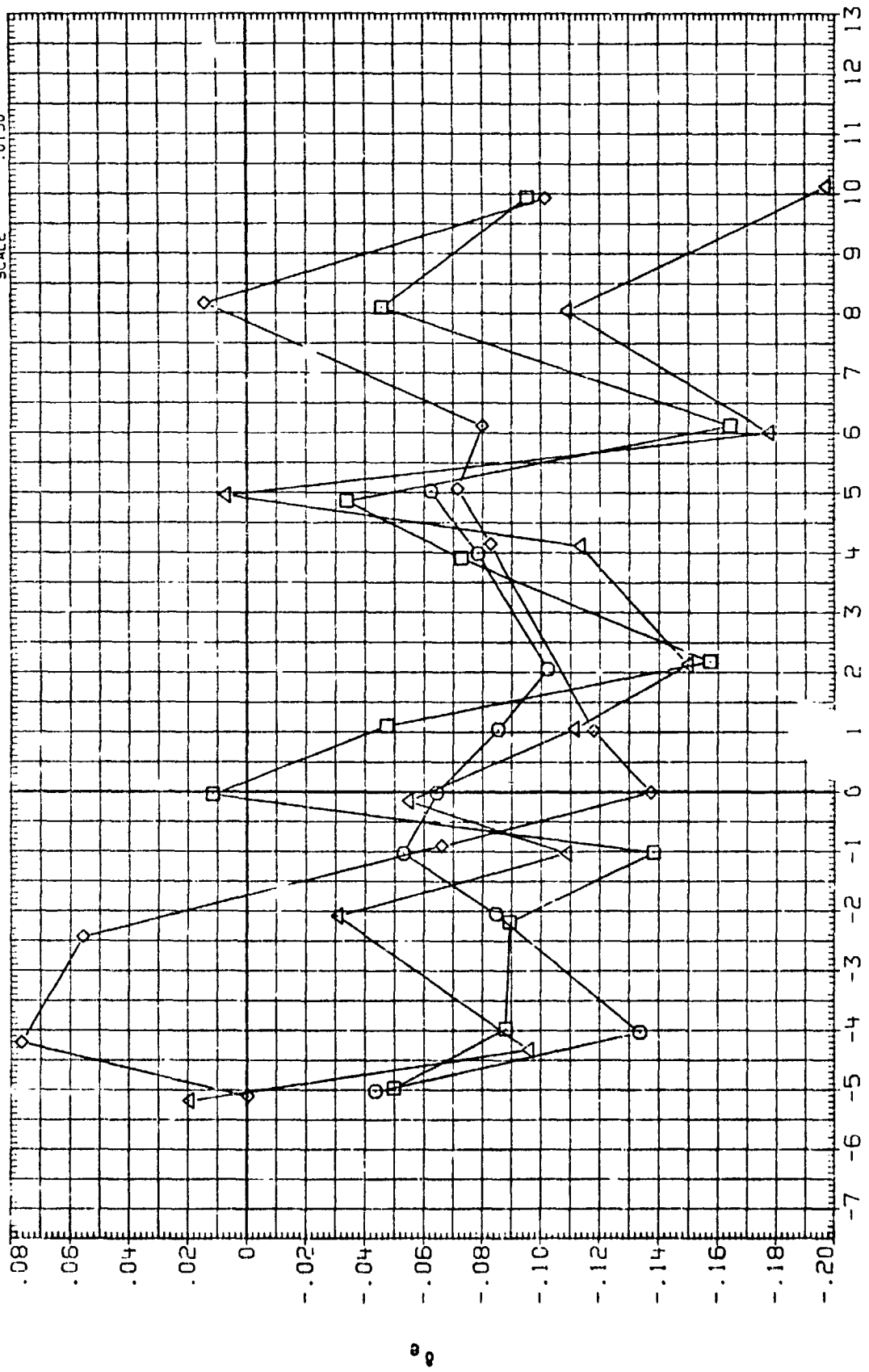


FIGURE 22. AILERON EFFECTIVENESS, ELEVON= 0 DEGREES

(A) MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	SPOBRK	RN/L	REFERENCE INFORMATION
(TJT056)	LARC LTPT 228(LAS1B)B26C9E43F8M16N28RSV8W	.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(TJT057)	LARC LTPT 228(LAS1B)B26C9E43F8M16N28RSV8W	6.000	.000	25.000	12.500	LREF 474.8000 INCHES
(TJT058)	LARC LTPT 228(LAS1B)B26C9E43F8M16N28RSV8W	13.000	.000	25.000	12.500	BREF 936.6800 INCHES
(TJT060)	LARC LTPT 228(LAS1B)B26C9E43F8M16N28RSV8W	20.000	.000	25.000	12.500	XMRP 1076.7000 IN. XO
						YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

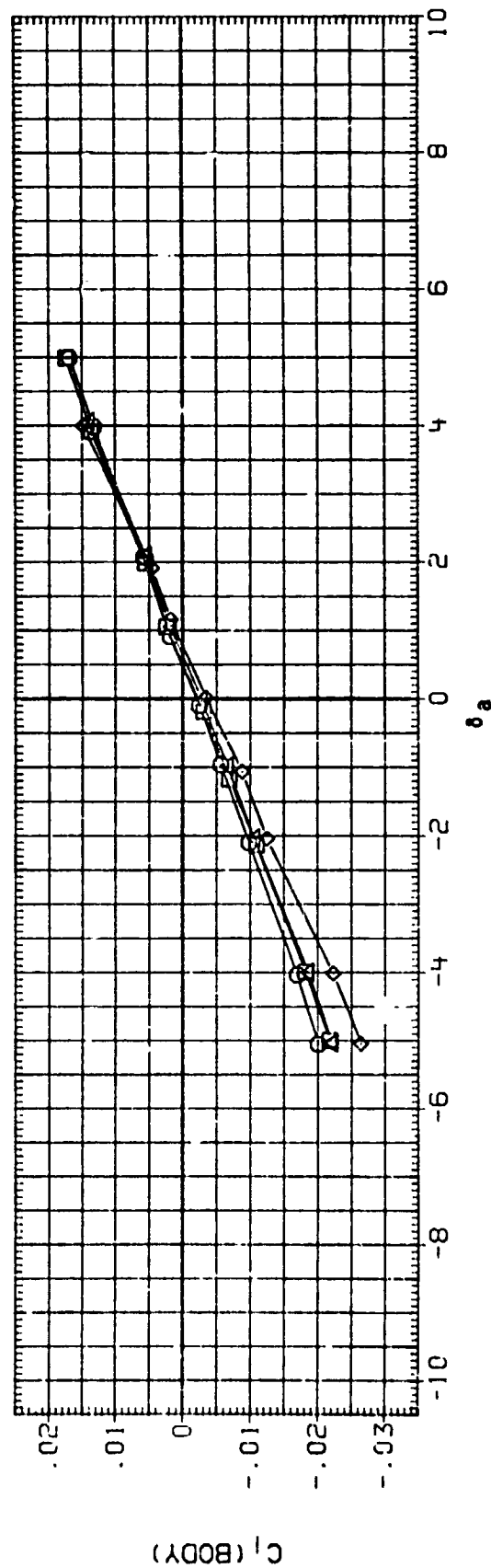
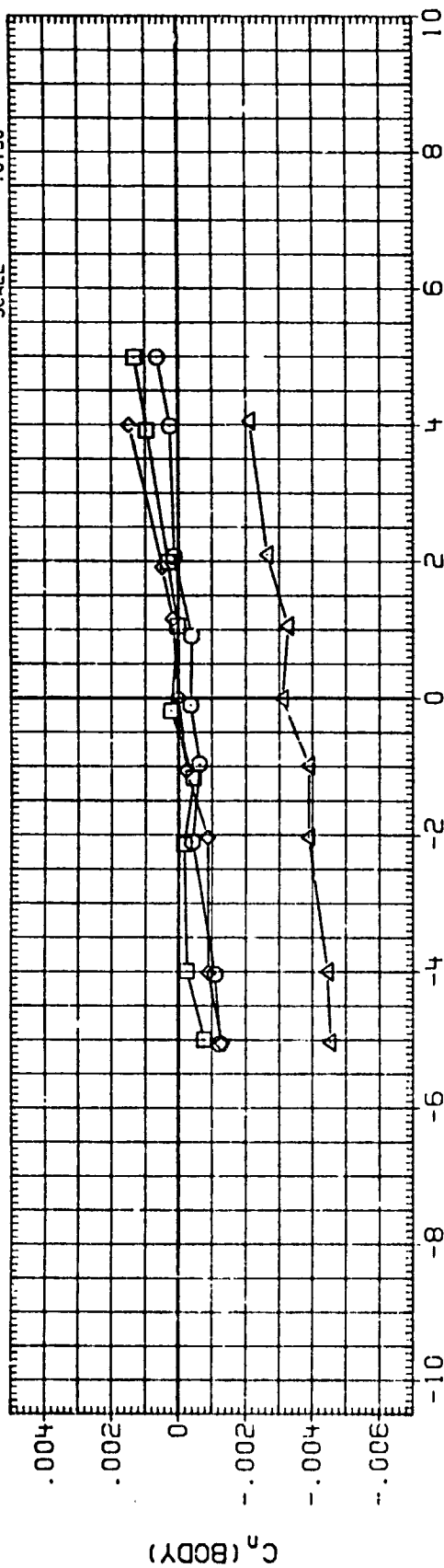


FIGURE 23. AILERON EFFECTIVENESS, ELEVON= 10 DEGREES

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	SPDRK	RN/L	REFERENCE INFORMATION
(TJ056)	○	LARC LPT 228(LA61B)B26C9E3F8M16N28R5V8H	.000	.000	25.000	12.500	SREF 2690.0000 SQ.FT.
(TJ057)	◇	LARC LPT 228(LA61B)B26C9E3F8M16N28R5V8H	6.000	.000	25.000	12.500	LREF 474.8000 INCHES
(TJ058)	△	LARC LPT 228(LA61B)B26C9E3F8M16N28R5V8H	13.000	.000	25.000	12.500	BREF 936.6800 INCHES
(TJ060)	□	LARC LPT 228(LA61B)B26C9E3F8M16N28R5V8H	20.000	.000	25.000	12.500	XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

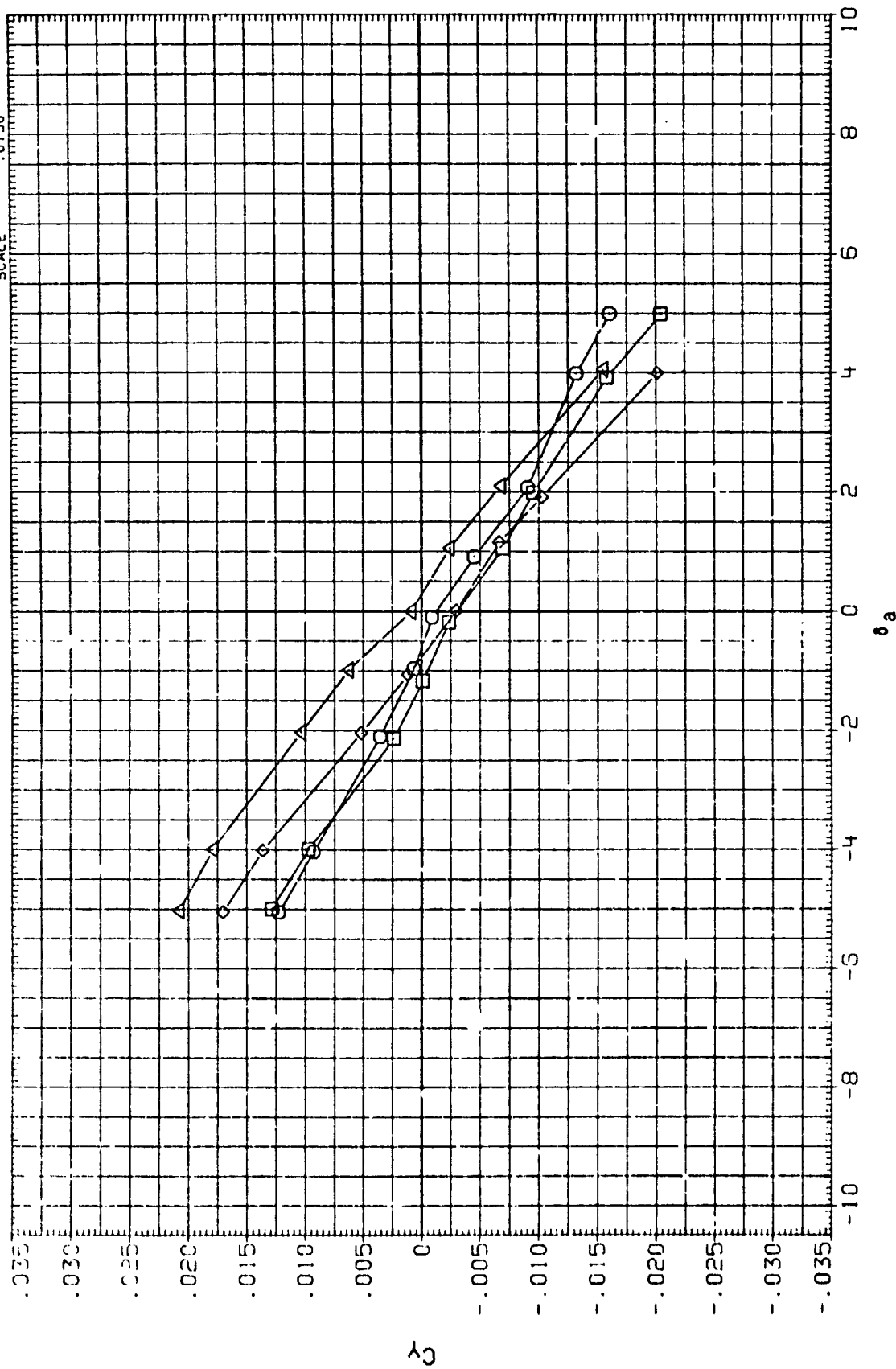


FIGURE 23. AILERON EFFECTIVENESS, ELEVON = 10 DEGREES

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	BETA	SPDRK	RN/L	REFERENCE INFORMATION	SQ. FT.
(TJT056)	○	LARC LTPT 228(LA61B)B26C9EY3FBM16N28R5VBH	.000	.000	25.000	12.500	SREF	2690.0000
(TJT057)	□	LARC LTPT 228(LA61B)B26C9EY3FBM16N28R5VBH	6.000	.000	25.000	12.500	LREF	474.8000
(TJT058)	◇	LARC LTPT 228(LA61B)B26C9EY3FBM16N28R5VBH	13.000	.000	25.000	12.500	BREF	936.6800
(TJT060)	△	LARC LTPT 228(LA61B)B26C9EY3FBM16N28R5VBH	20.000	.000	25.000	12.500	XMRP	1076.7000
							YMRP	375.0000
							ZMRP	375.0000
							SCALE	.0150

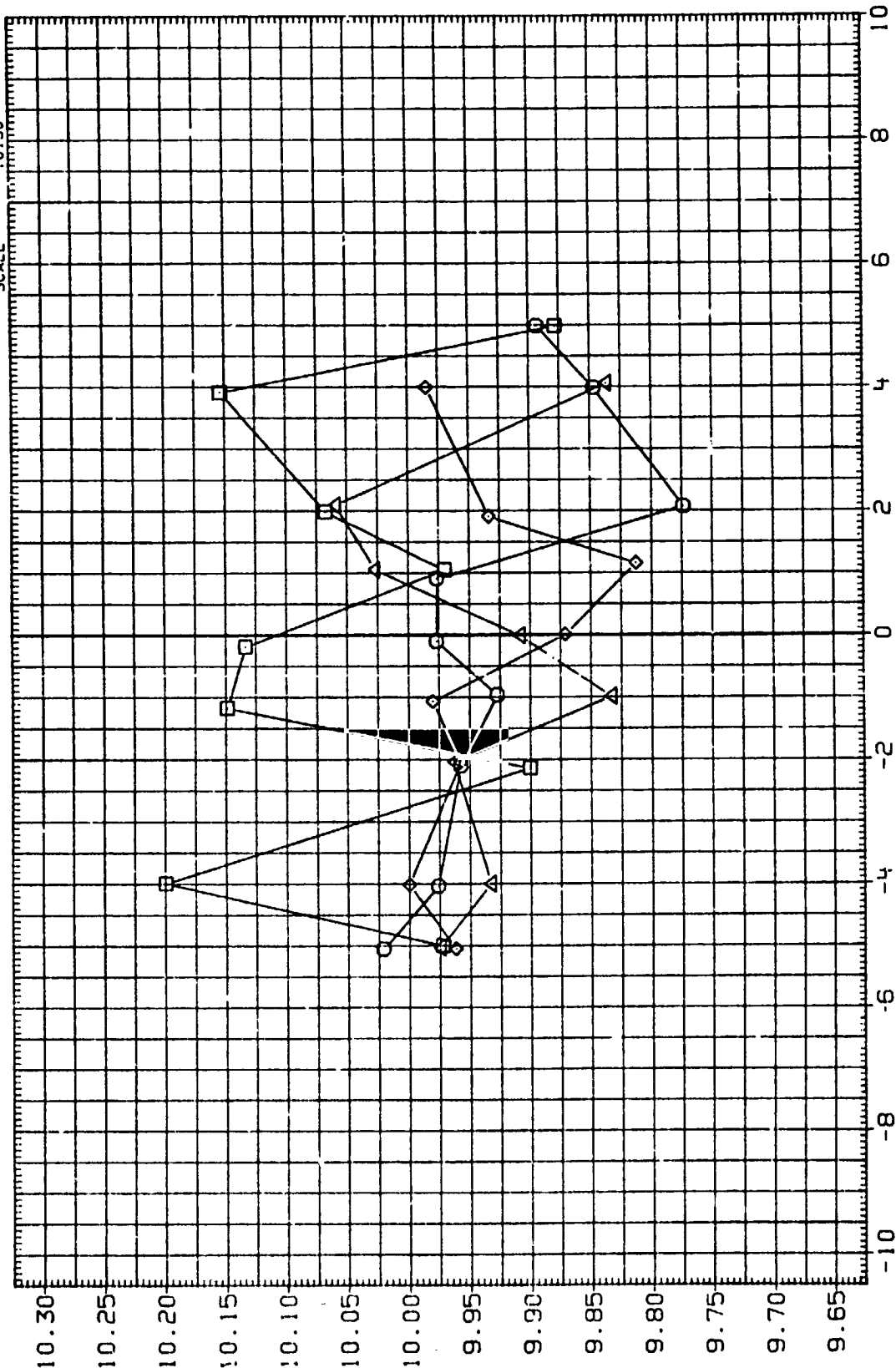


FIGURE 23. AILERON EFFECTIVENESS, ELEVON= 10 DEGREES

(A) MACH = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CJT052) □ LARC LTPT 228(LA51B)B26C9E43FBM16N28R5VBW

(CJT045) □ LARC LTPT 228(LA51B)B26C9E43FBM16N28R5VBW

(CJT041) ◇ LARC LTPT 228(LA51B)B26C9E43FBM16N28R5VBW

ELEVON SPDBRK

-10.000 25.000

.000 25.000

10.000 25.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 935.6800 INCHES

XMRP 1076.7000 IN. X0

YMRP .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE .0150

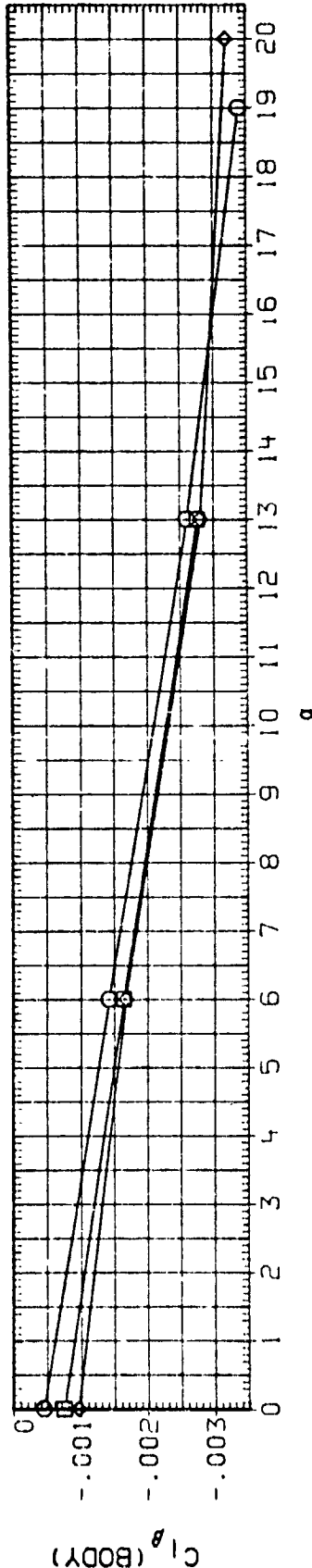
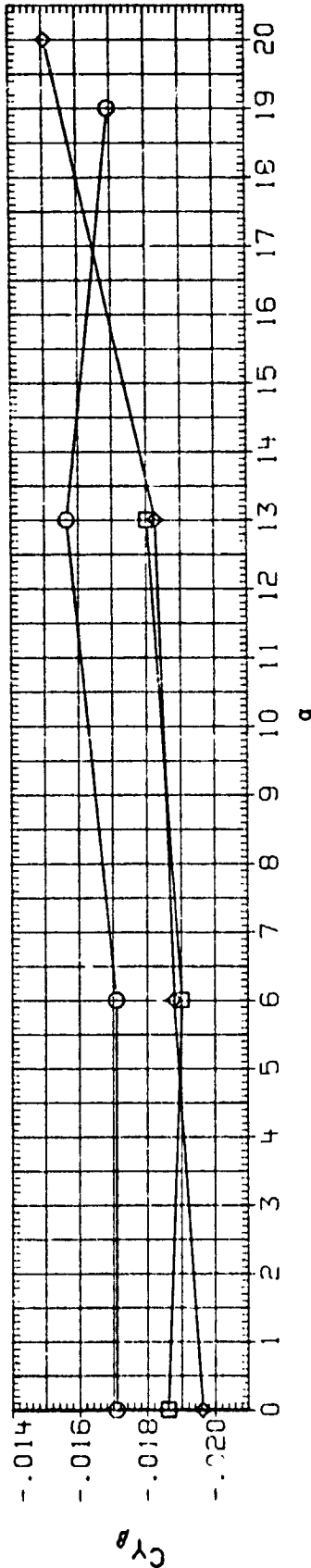
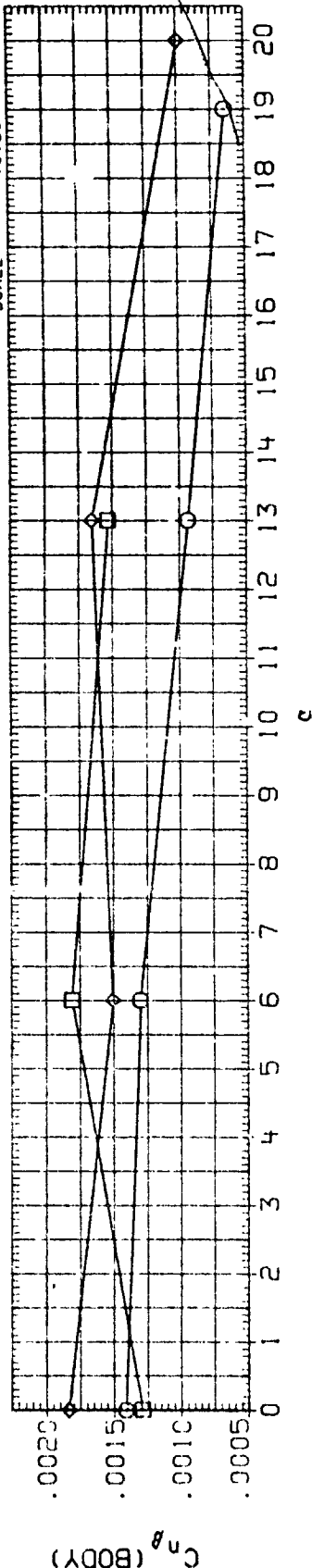


FIGURE 24. ORBITER LATERAL-DIRECTIONAL STABILITY DERIVATIVES AT ZERO SIDESLIP OBTAINED FROM YAW RUNS AT CONSTANT ANGLE OF ATTACK

(A) MACH = .20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	A. LRON	SPDBRK	RN/L	REFERENCE INFORMATION
(RJ1048)	○	LARC LTPT 228(LA618)B26C9E43FBM16N28R5V8W	.070	25.000	10.000	SREF 2690.0000 SQ. FT.
(RJ1049)	□	LARC LTPT 228(LA618)B26C9E43FBM16N28R5V8W	.000	25.000	10.000	LREF 474.8000 INCHES
						BREF 936.6800 INCHES
						XMRP 1076.7000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

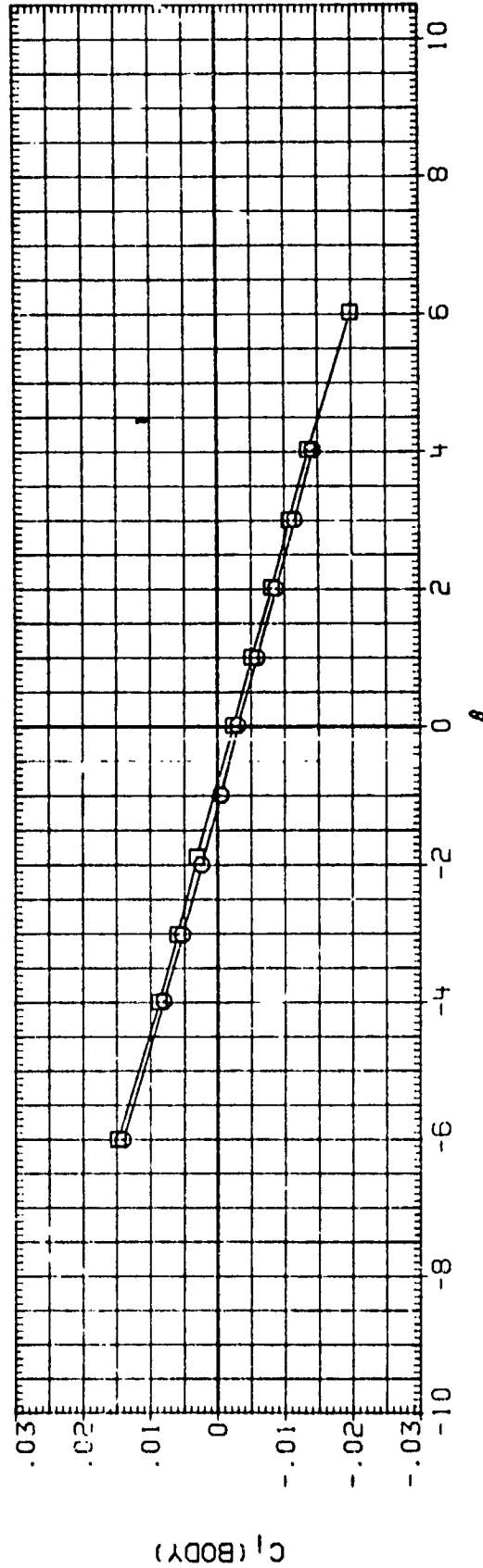
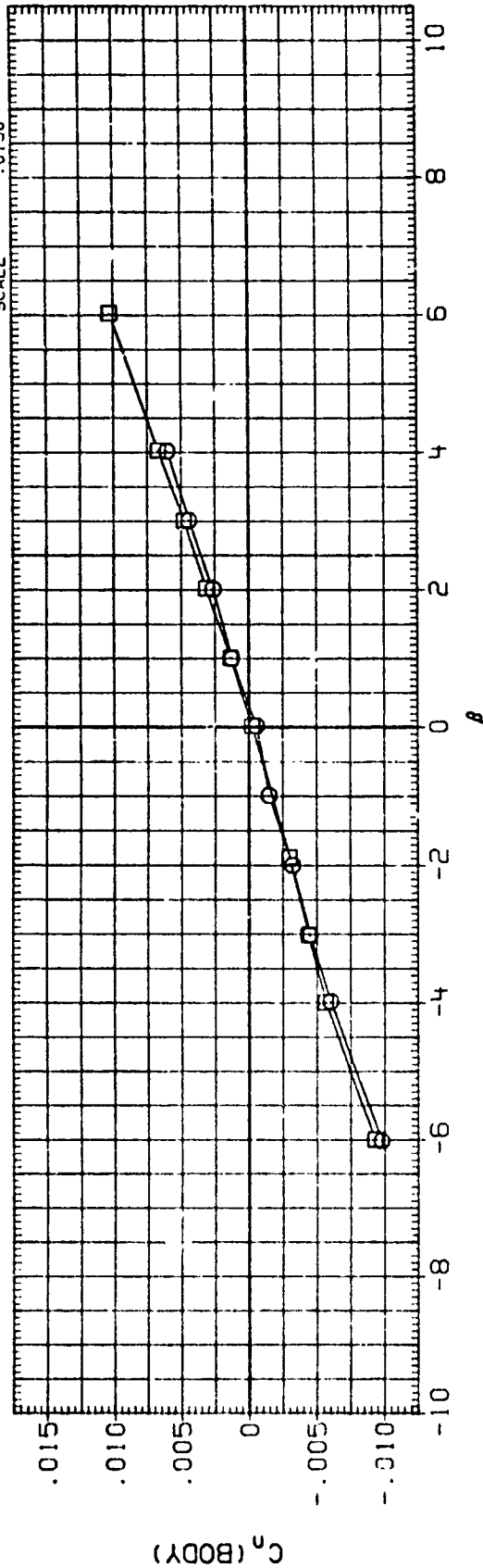


FIGURE 25. LATERAL-DIRECTIONAL HYSTERESIS: S.ELEVON= 0 DEGREES, ANGLE OF ATTACK= 13 DEGREES

DATA SET SYMBOL
(RJTD48)
(RJTD49)

CONFIGURATION DESCRIPTION

LARC LTPT 228(LA61B)B26C9E43F8M16N28R5VBH
LARC LTPT 228(LA61B)B26C9E43F8M16N28R5VBH

A:LRON SPOBRK RN/L
.000 25.000 10.000
.000 25.000 10.000

REFERENCE INFORMATION
SREF 2590.0000 SQ.FT.
LREF 474.8000 INCHES
BREF 936.6900 INCHES
XMRP 1076.7000 IN. XO
YMRP .0000 IN. YO
ZMRP 375.0000 IN. ZO
SCALE .0150

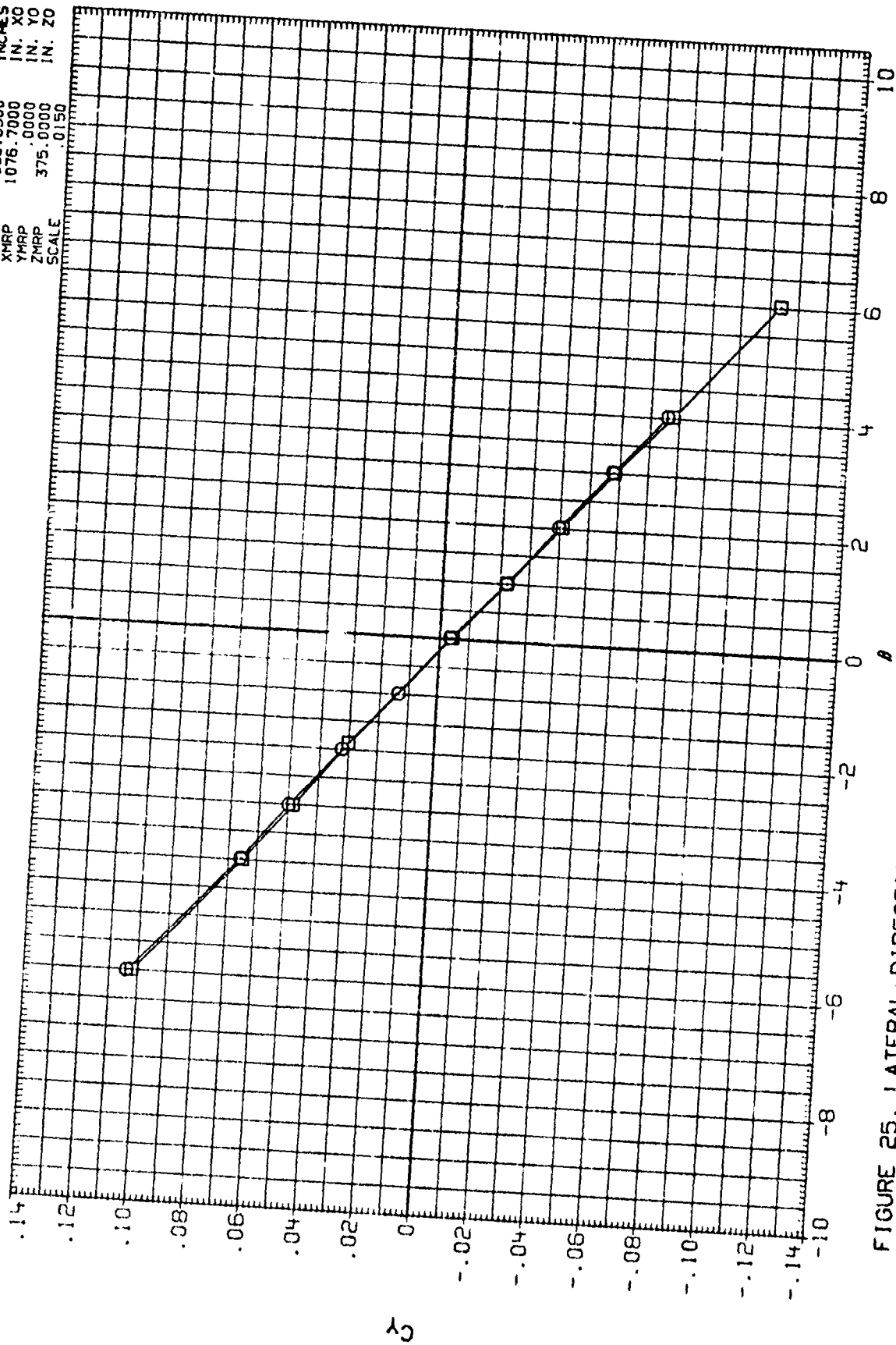


FIGURE 25. LATERAL-DIRECTIONAL HYSTERESIS, ELEVON= 0 DEGREES,
ANGLE OF ATTACK= 13 DEGREES
(A) MACH = .25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILRON	SPOBRK	RN/L	REFERENCE INFORMATION
(SJT048)	LARC LTPT 228(LAS18)B26C9E43F8M16N28R5V8W	.000	25.000	10.000	SRE" 2690.0000 SQ. FT.
(SJT049)	LARC LTPT 228(LAS18)B26C9E43F8M16N28R5V8W	.000	25.000	10.000	LREF 474.8000 INCHES
					BREF 936.6800 INCHES
					XMRP 1076.7000 IN. X0
					YMRP .0000 IN. Y0
					ZMRP 375.0000 IN. Z0
					SCALE .0150

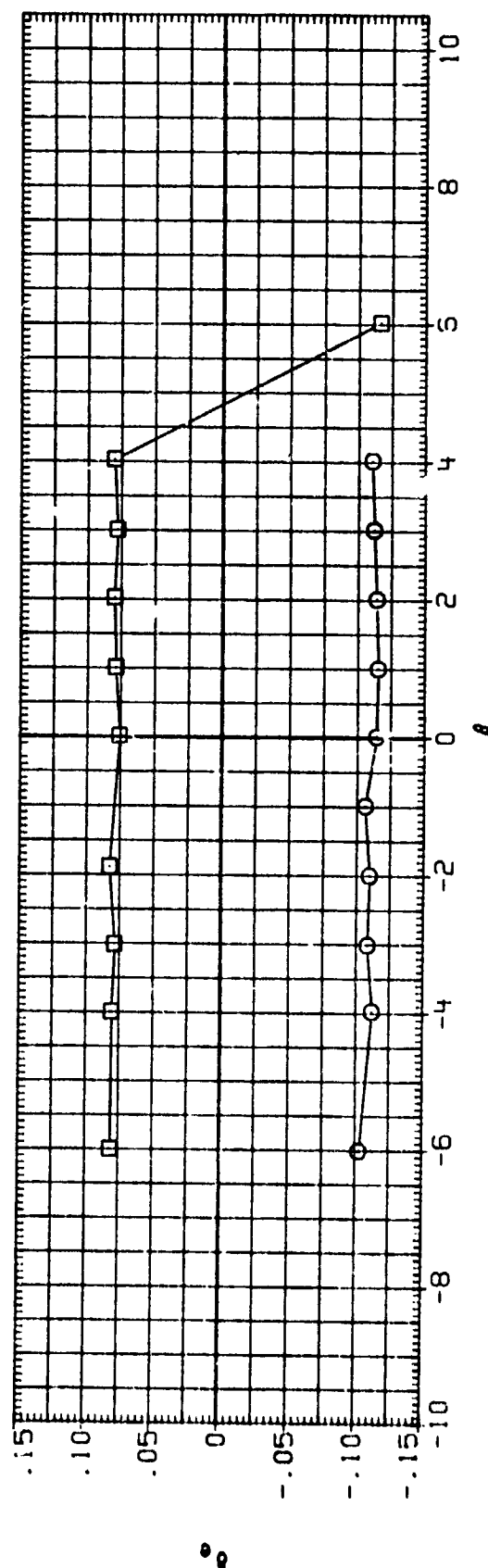
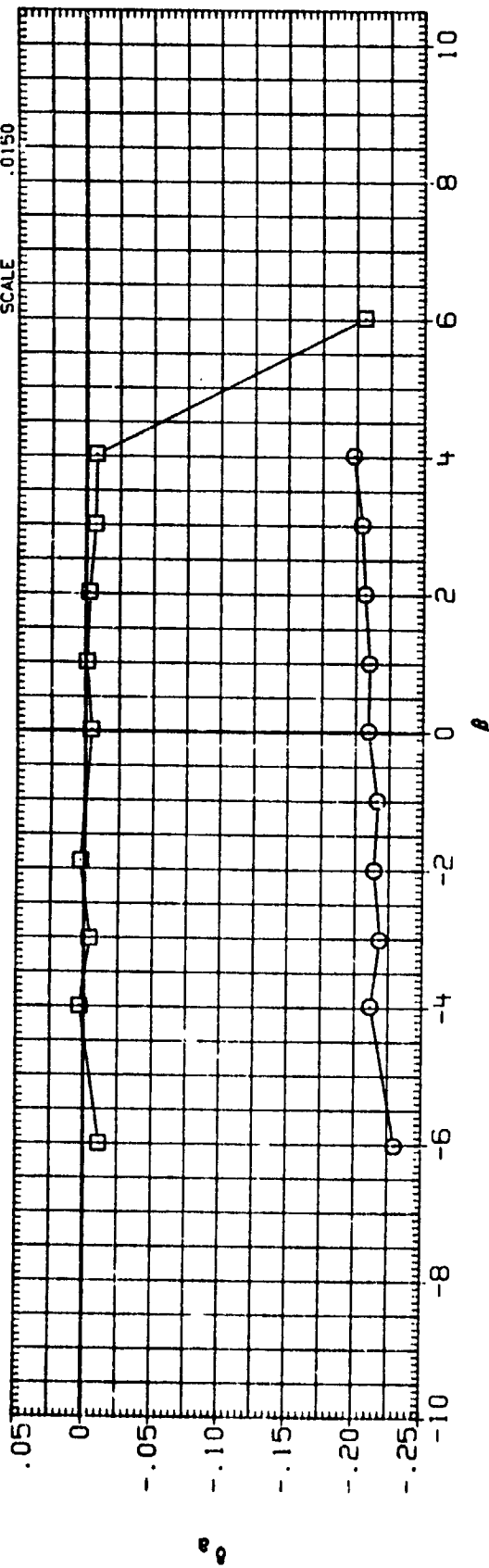


FIGURE 25. LATERAL-DIRECTIONAL HYSTERESIS, ELEVON= 0 DEGREES, ANGLE OF ATTACK= 13 DEGREES

(A) MACH = .25

DATA SET	SYMBOL	CONFIG.	DESCRIPTION	A'LRON	SPUBRK	RN/L	REFERENCE INFORMATION
(RJT050)	□	LARC LTPT 228(LA51B)	91925C9E43F8M16N28R5V8W	.000	25.000	10.000	SREF 2690.0000 SQ.FT.
(RJT051)	□	LARC LTPT 228(LA51B)	26C9E43F8M16N28R5V8W	.030	25.000	10.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

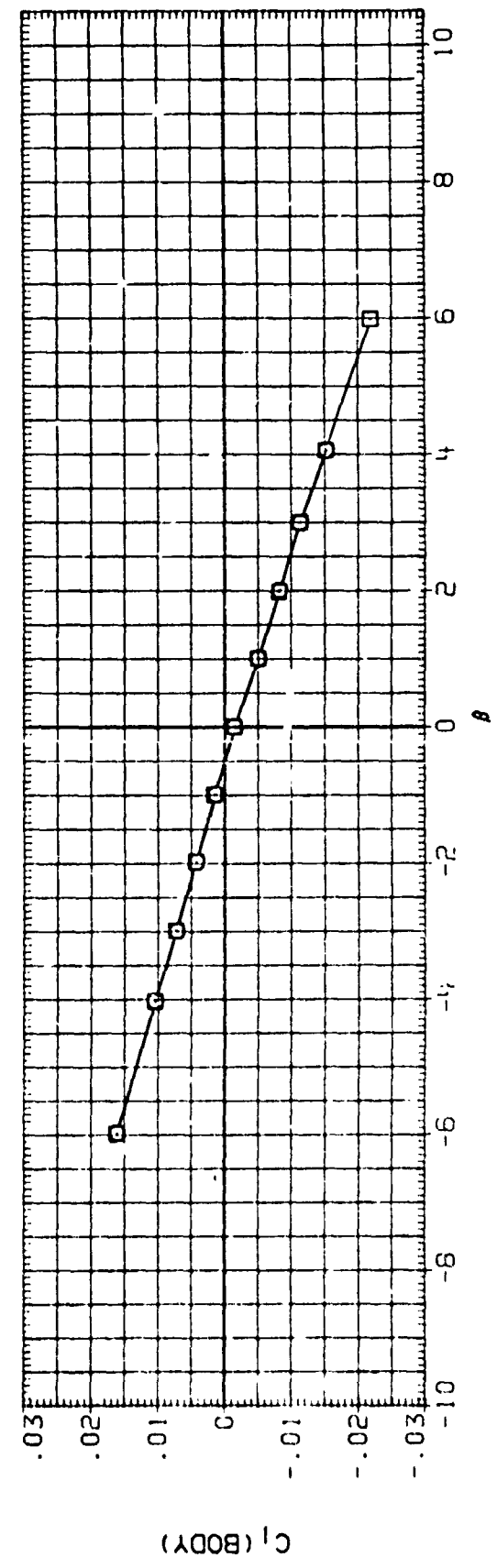
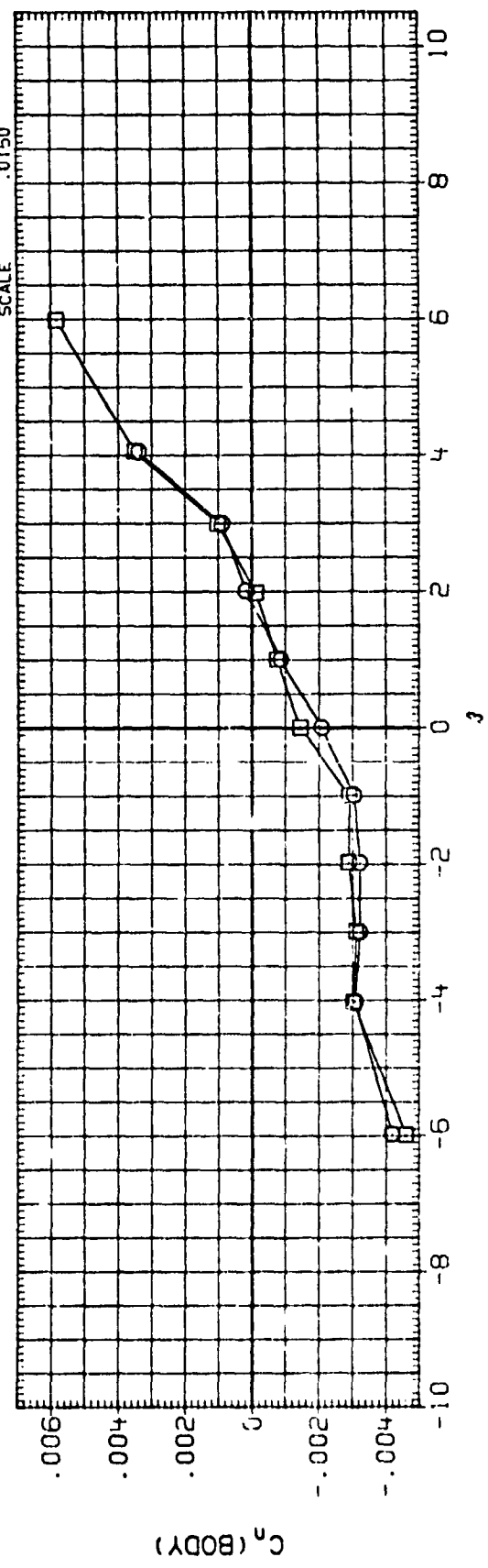


FIGURE 26. LATERAL-DIRECTIONAL HYSTERESIS, ELEVON = 0 DEGREES, ANGLE OF ATTACK = 19 DEGREES

(A) MACH = .25

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RJ1050) 0 LARC LTPT 228(LAS1B)B26C9E43F8M16N28R5VBW
 (RJ1051) 0 LARC LTPT 228(LAS1B)B26C9E43F8M16N28R5VBW

ILRON SPDBRK RN/L
 .000 25.000 10.000
 .000 25.000 10.000

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 336.6800 INCHES
 XMRP 1076.7000 IN. X0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE .0150

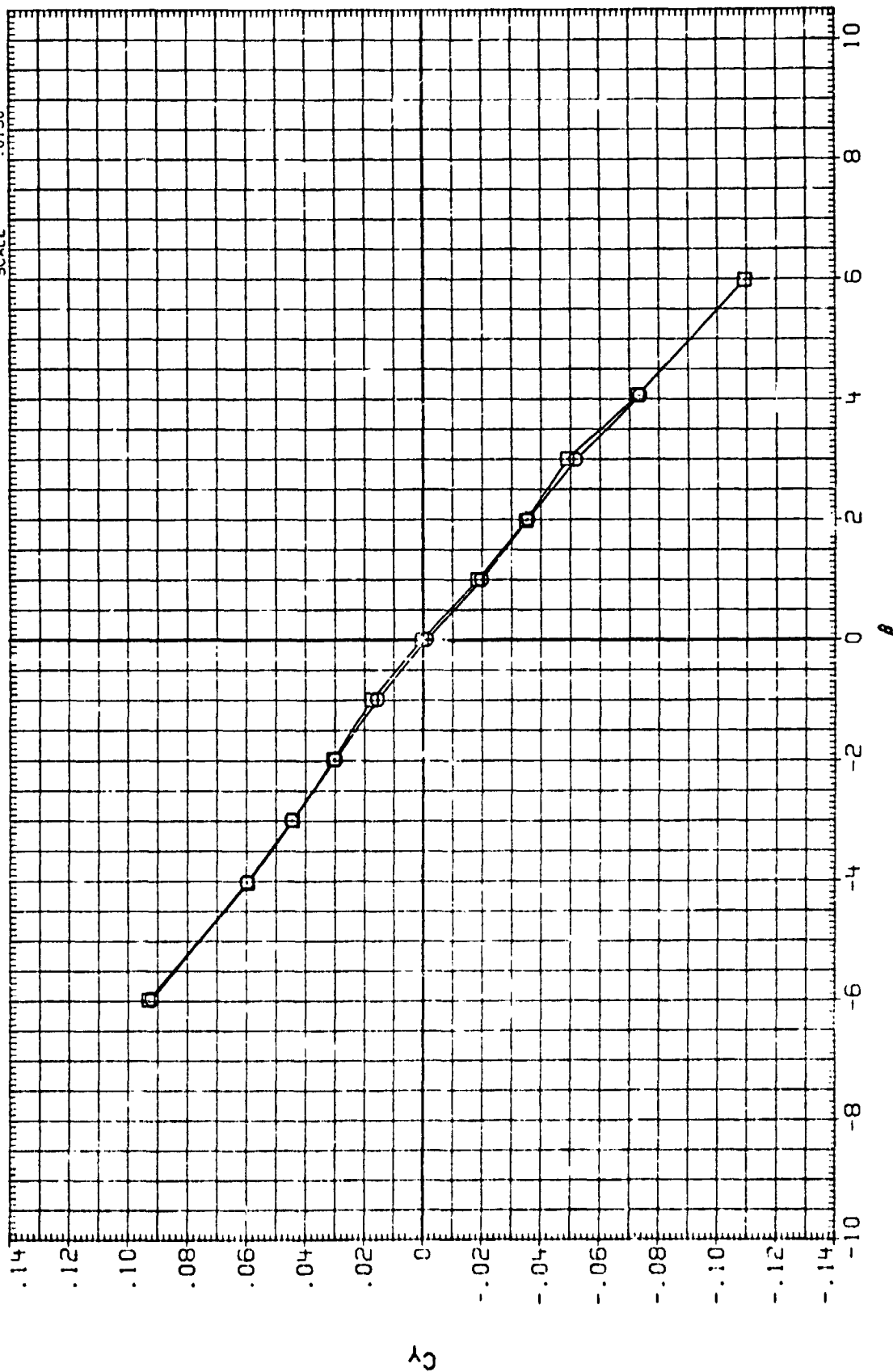


FIGURE 26. LATERAL-DIRECTIONAL HYSTERESIS, ELEVON= 0 DEGREES, ANGLE OF ATTACK= 19 DEGREES

(A) MACH = .25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	AILRON	SPOBRK	RN/L	REFERENCE INFORMATION
(SJT050)	LARC LTPT 228/LAS1B, B25C9E4, 3F8M16N28R5V8W	.000	25.000	10.000	SREF 2690.0000 SQ.FT.
(SJT051)	LARC LTPT 228/LAS1B, B25C9E4, 3F8M16N28R5V8W	.000	25.000	10.000	LREF 474.8000 INCHES
					BREF 336.6800 INCHES
					XMRP 1076.7000 IN. X0
					YMRP .0000 IN. Y0
					ZMRP 375.0000 IN. Z0
					SCALE .0150

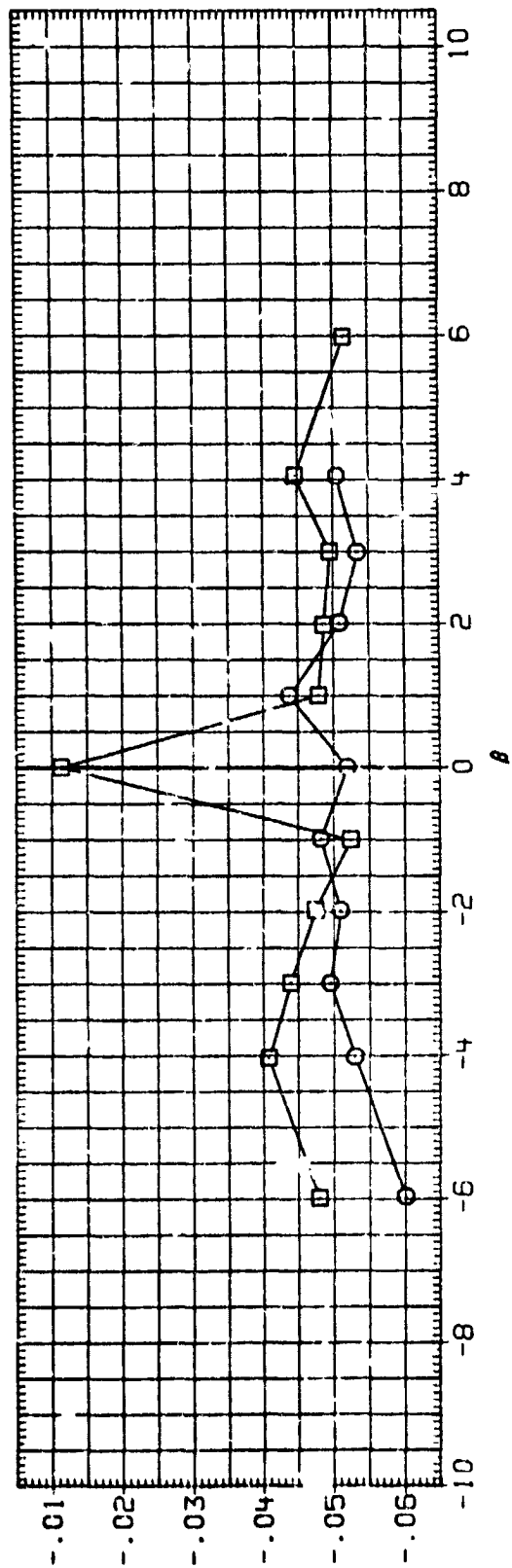
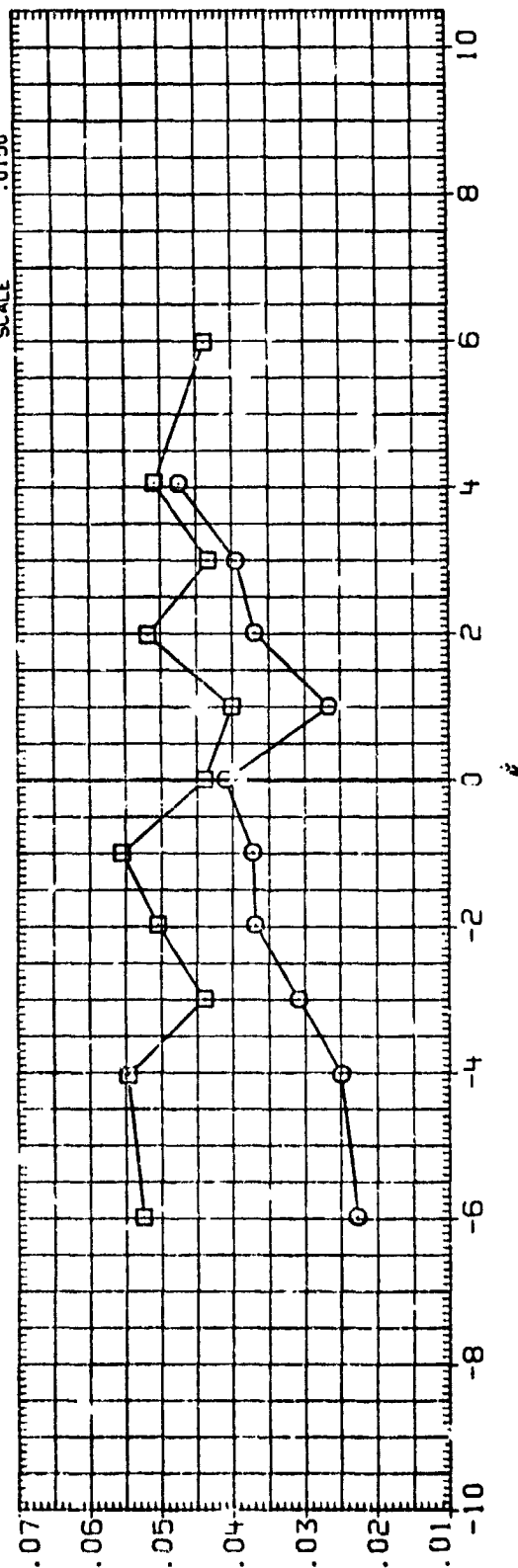


FIGURE 26. LATERAL-DIRECTIONAL HYSTERESIS, ELEVON= 0 DEGREES, ANGLE OF ATTACK= 19 DEGREES

(A) MACH = .25

DATA SET SYM J. CONFIGURATION DESCRIPTION
 (1) J058 LARC LPT 228(LA618) 360(94478) 362(94478)
 (1) J055 LARC LPT 228(LA618) 826(94478) 360(94478)

SPOBRK RN/L
 25.000 12.500
 25.000 12.500

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 474.80.0 INCHES
 GREF 935.6800 INCHES
 YMRP 1376.7000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

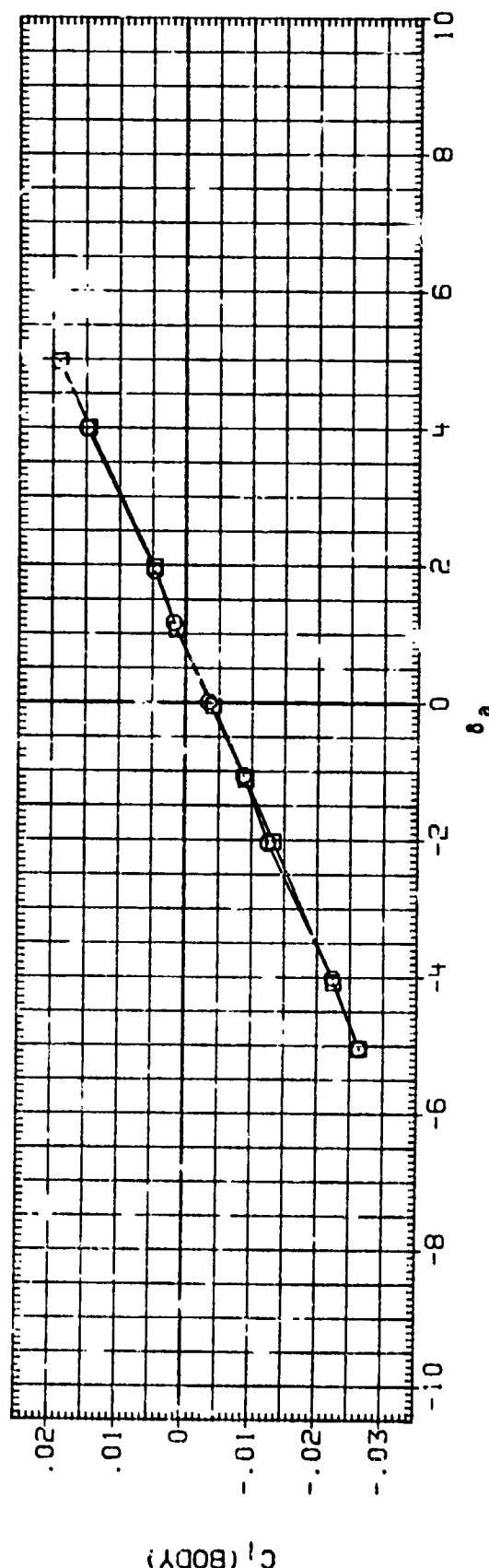
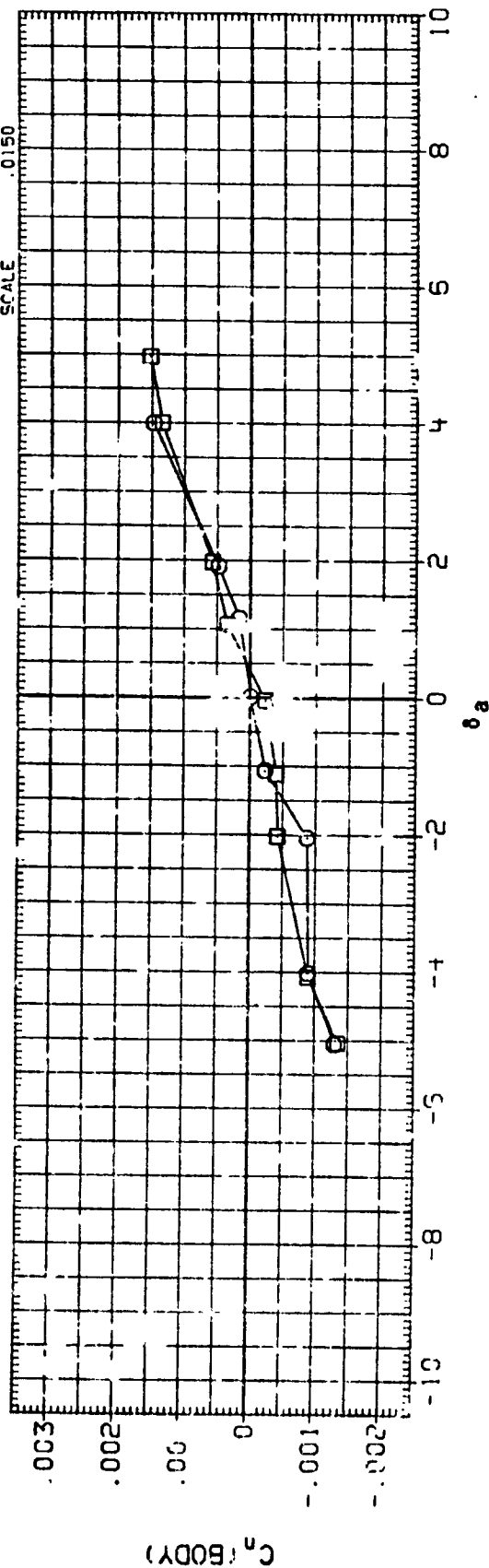


FIGURE 27. AILERON CONTROL HYSTERESIS, ELEVON= 10 DEGREES,
 ANGLE OF ATTACK= 13 DEGREES

(A) MACH = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(TJT058) □ LARC LTP1 2 31LA61B1B25C9E43F8M16N28R5VBW

(TJT059) □ LARC LTP1 2281LA61B1B25C9E43F8M16N28R5VBW

SPDBRK RN/L

25.000 12.500

25.000 12.500

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP 0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

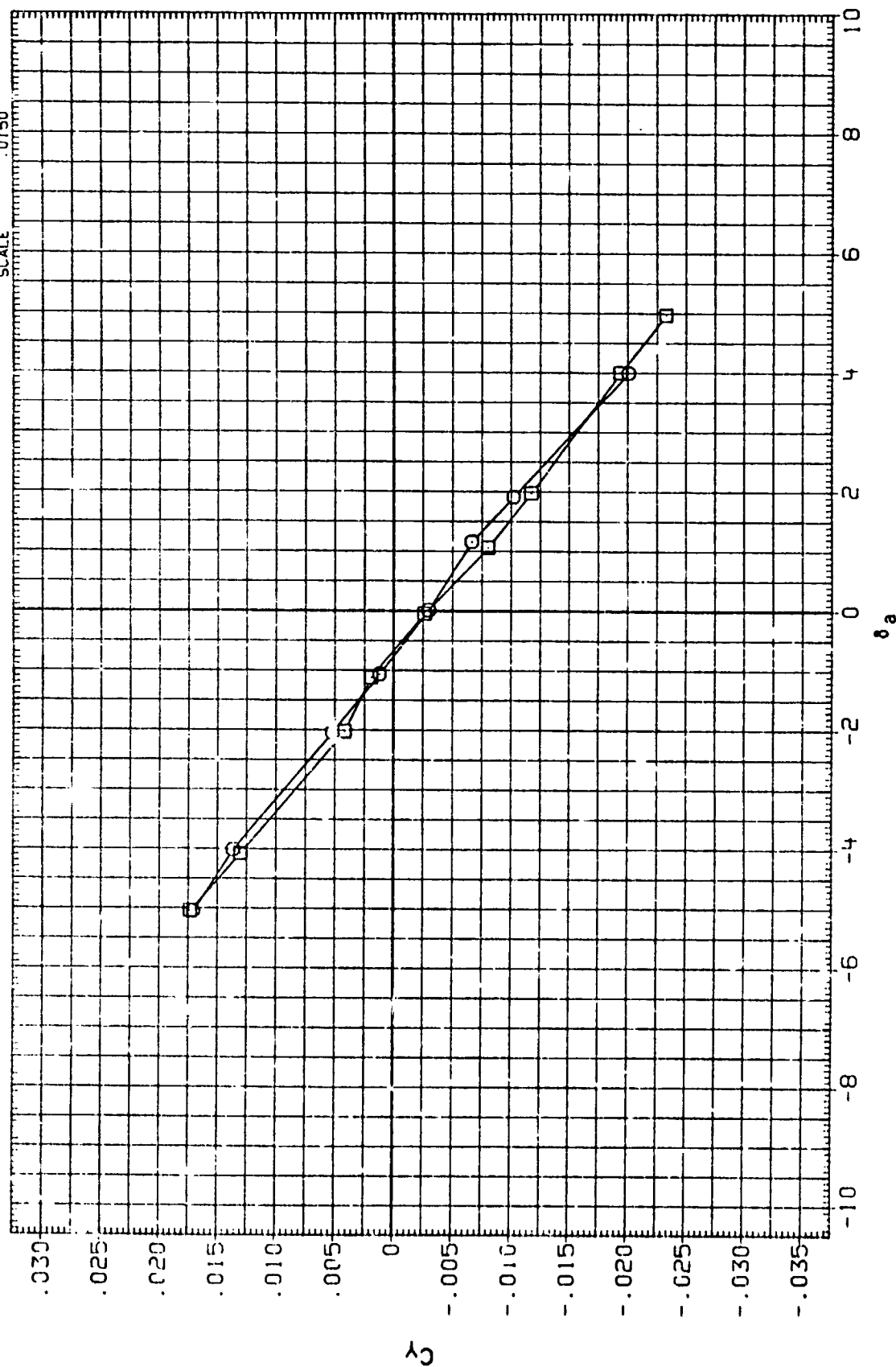


FIGURE 27. AILERON CONTROL HYSTERESIS, ELEVON= 10 DEGREES, ANGLE OF ATTACK= 13 DEGREES

(MACH = .50

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (TJ058) □ LARC LTPT 288(LA618)B26C9E43F8M16N28R5VBW
 (TJ059) □ LARC LTPT 288(LA618)B26C9E43F8M16N28R5VBW

SPDBRK RN/L
 25.000 12.500
 25.000 12.500

REFERENCE INFORMATION
 SREF 2590.0000 SQ.FT.
 LREF 4774.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

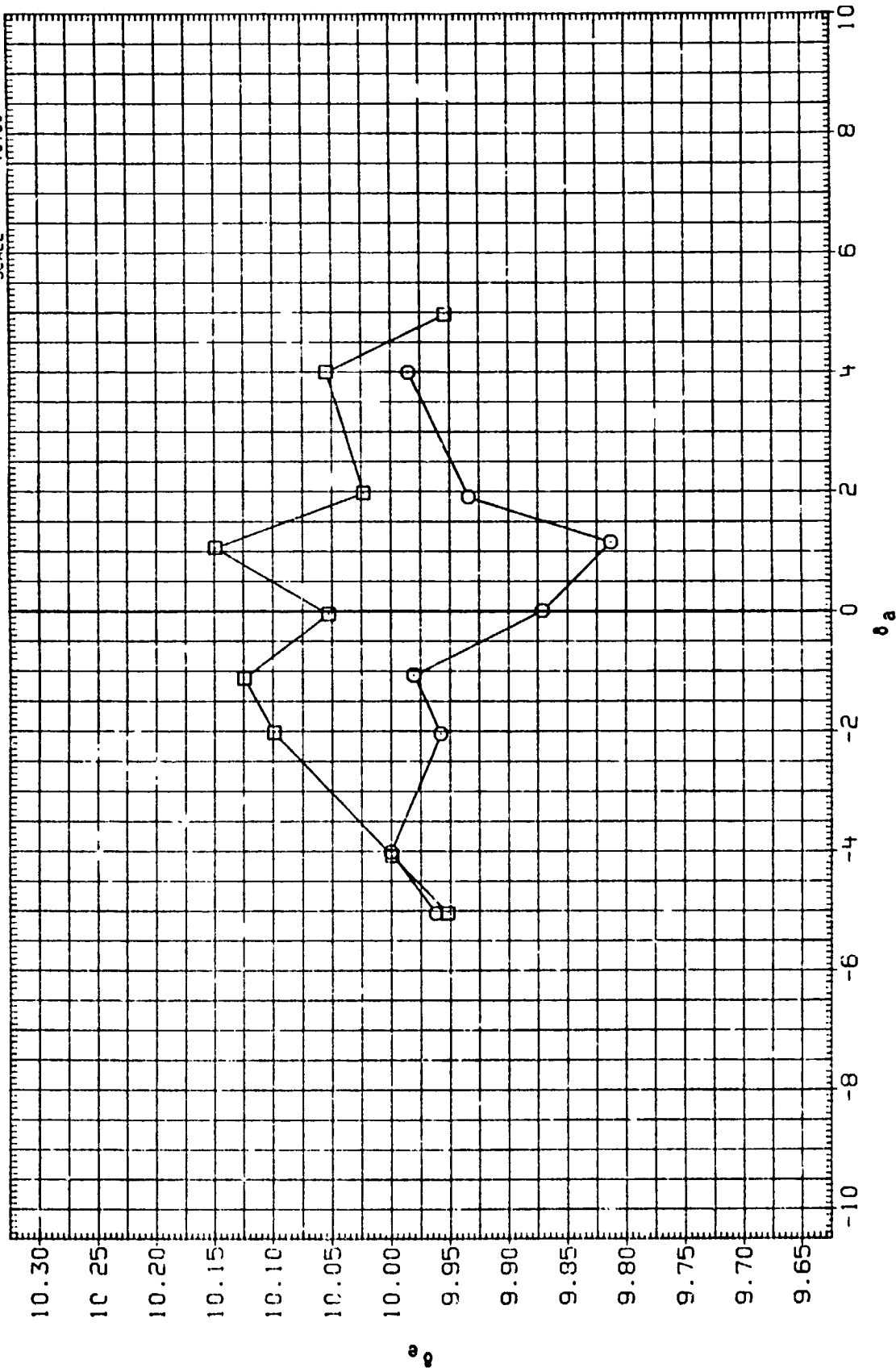


FIGURE 27. AILERON CONTROL HYSTERESIS; ELEVON= 10 DEGREES,
 ANGLE OF ATTACK= 13 DEGREES

(A) MACH = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (TJT060) ○ LARC LPT 228(LAS1B)B2C9E43F8H1N2B8R5V8W
 (TJT061) □ LARC LPT 228(LAS1B)B2C9E43F8H1N2B8R5V8W

REFERENCE INFORMATION
 SREF 2690.0000 SQ.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE .0150

SPDBRK 25.000 25.000
 RN/L 12.500 12.500

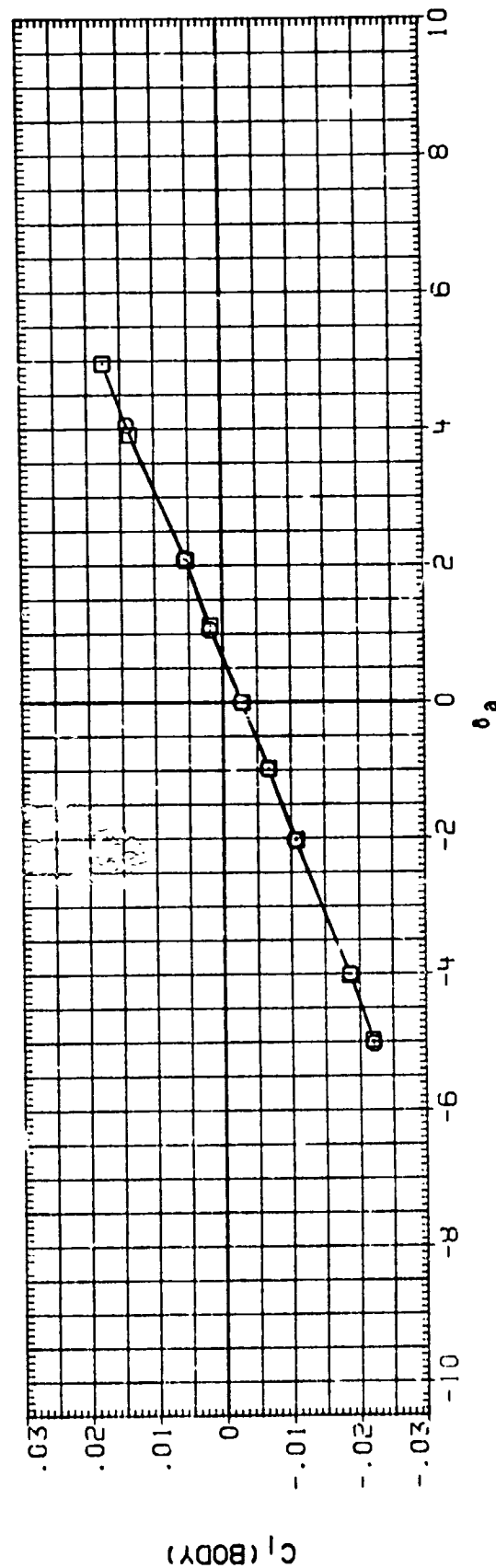
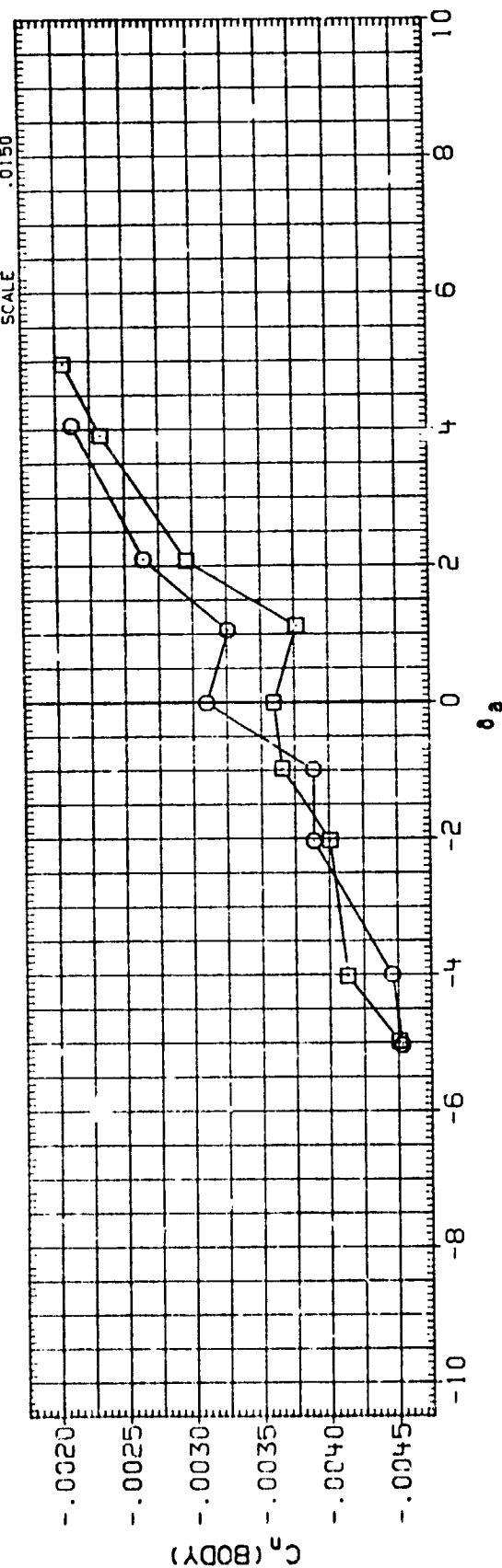


FIGURE 28. AILERON CONTROL HYSTERESIS; ELEVON= 10 DEGREES, ANGLE OF ATTACK= 19 DEGREES

'A)MACH = .20

DATA SET SYMBOL: ☐ ☐ CONFIGURATION DESCRIPTION:
 (TJT050) LARC LPT 228(LA61B)B26C9E43F8M16N28R5V8W
 (TJT051) LARC LPT 228(LA61B)B26C9E43F8M16N28R5V8W

SPDRK RV/L
 25.000 12.500
 25.000 12.500

REFERENCE INFORMATION
 SREF 2690.0000 SQ. FT.
 LREF 474.8000 INCHES
 BREF 936.6800 IN. X0
 XMRP 1076.7000 IN. Y0
 YMRP .0000 IN. Y0
 ZMRP 375.0000 IN. Z0
 SCALE 0.150

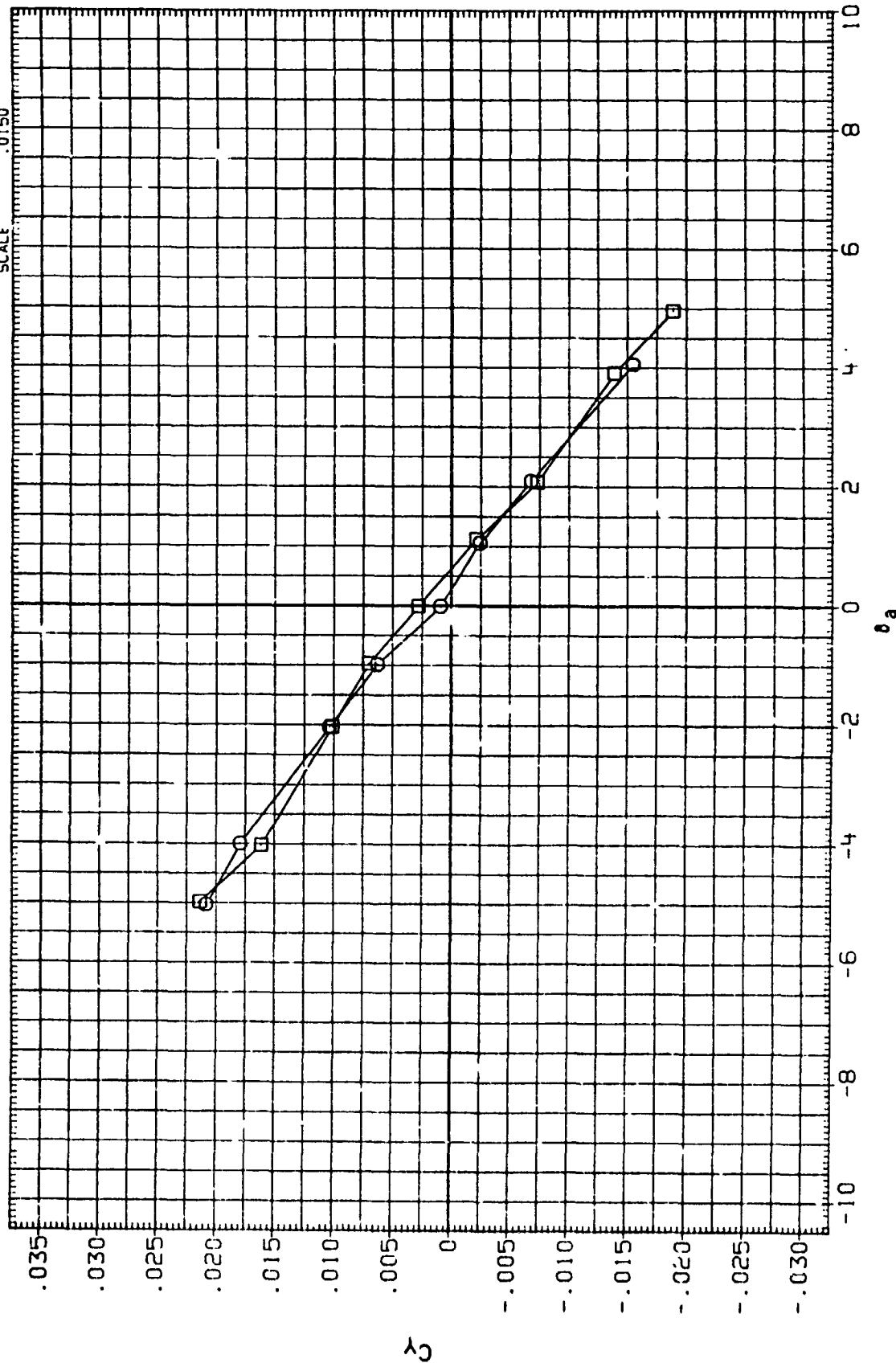


FIGURE 28. AILERON CONTROL HYSTERESIS, ELEVON= 10 DEGREES,
 ANGLE OF ATTACK= 19 DEGREES

(A) MACH = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (TJTO50) ☐ LARC LPT 228(LA61B)B26C9EY3F8M16N28R5VBH
 (TJTOE1) ☐ LARC LPT 228(LA61B)B26C9EY3F8M16N28R5VBH

SPOBRK RN/L
 25.000 12.500
 25.000 12.500

REFERENCE INFORMATION
 SREF 2690.0000 SO.FT.
 LREF 474.8000 INCHES
 BREF 936.6800 INCHES
 XMRP 1076.7000 IN. XO
 YMRP .0000 IN. YO
 ZMRP 375.0000 IN. ZO
 SCALE 0.150

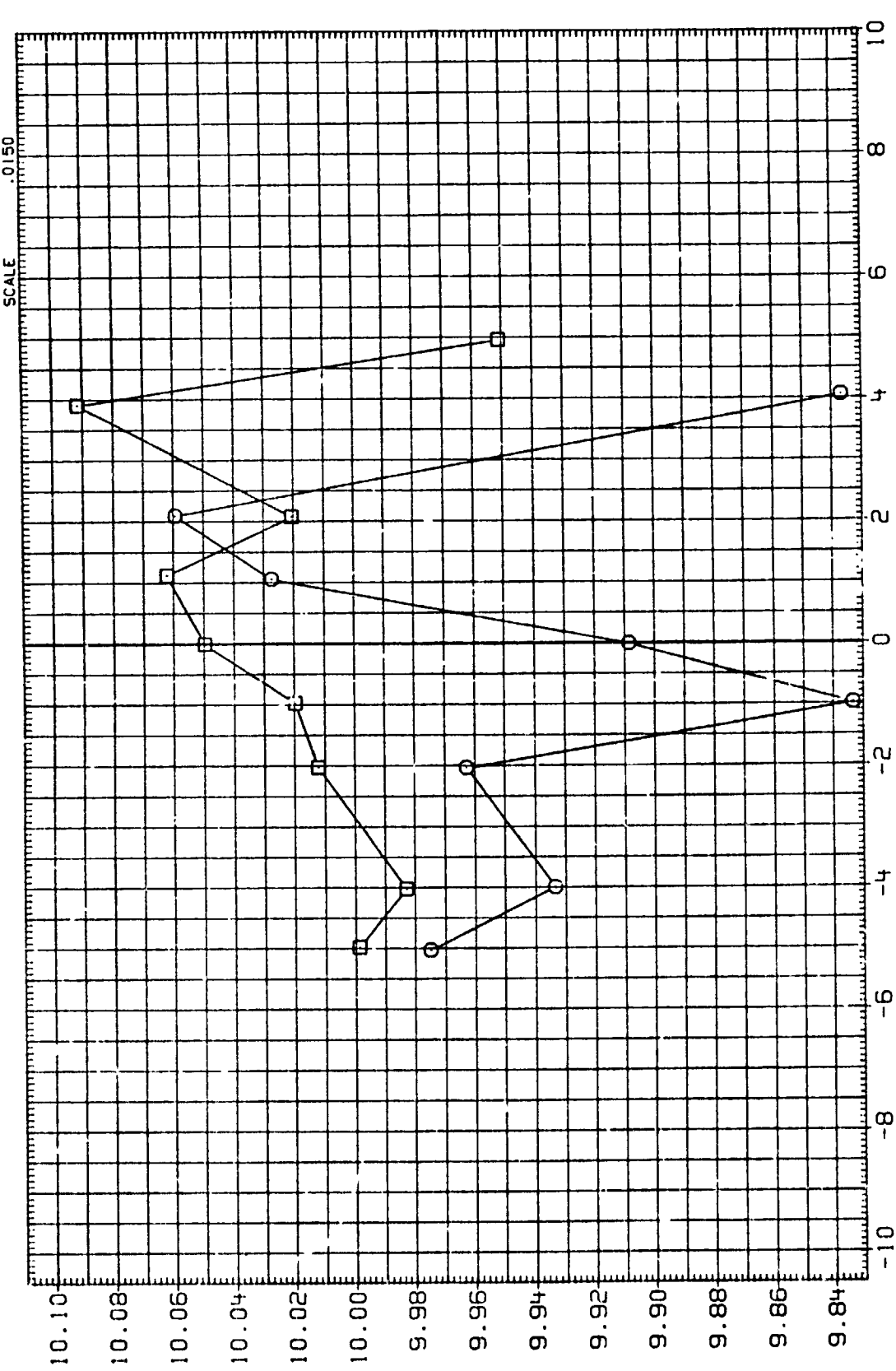


FIGURE 28. AILERON CONTROL HYSTERESIS; ELEVON= 10 DEGREES,
 ANGLE OF ATTACK= 19 DEGREES

(A) MACH = .20

APPENDIX
TABULATED SOURCE DATA

Tabulations of plotted data are available
from DMS upon request.

LASIB (LARC LIPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(RJT001) (30 JUL 76)

PAGE 1

LARC LIPT 228(LA61B)B26C9E43FBM16N28R5V9M

REFERENCE DATA

SPEC = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 SPEC = 936.5900 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

BETA = .000 BOFLAP = .000
 RUDDER = .000 SPDRK = 25.000
 RN/L = 2.000 ELEVON = .000
 AILRON = .000

PARAMETRIC DATA

RUN NO. 80/ 0 PN/L = 1.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.291	-2.282	-.00373	-.14497	.06509	.02714	-.00030	-.00234	.01423	-.14216	.07081	-2.00765
.292	-1.243	-.00234	-.09546	.06713	.02739	-.00060	-.00147	.01005	-.09498	.06922	-1.37210
.293	-.125	-.00409	-.05014	.06686	.02750	-.00057	-.00238	.01404	-.04985	.05707	-.14321
.294	.390	-.00443	-.00197	.06545	.03022	-.00037	-.00155	.01265	-.00307	.05541	-.04589
.295	1.862	-.00422	.04419	.06454	.02934	-.00045	-.00251	.01289	.04207	.06594	.63800
.296	3.870	-.00538	.14125	.05901	.02948	-.00093	-.00174	.01251	.13695	.05641	2.00184
.297	5.933	-.00331	.24282	.04940	.02636	-.00077	-.00154	.01398	.23037	.07439	3.44782
.298	7.957	-.00355	.34122	.03829	.02595	-.00125	-.00191	.01027	.33645	.06608	3.90762
.299	10.104	-.01146	.45627	.02405	.02359	-.00149	-.00123	.01343	.44497	.10372	4.16999
.300	11.467	-.01721	.49937	.01777	.02401	-.00110	-.00154	.00936	.46717	.11339	4.16999
.301	12.034	-.01955	.55227	.01135	.02719	-.01122	-.00167	.00907	.53776	.11734	4.16999
.302	12.890	-.01922	.55441	.00959	.02715	-.00120	-.00212	.01511	.54944	.12111	4.16999
.303	13.080	-.01628	.60421	.00506	.02595	-.00129	-.00191	.01296	.58768	.14173	4.16999
.304	14.037	-.01840	.65807	-.00161	.02944	-.00174	-.00245	.01332	.63864	.15872	4.16999
.305	14.310	-.02150	.71275	-.00615	.02251	-.00217	-.00252	.01395	.69026	.17614	4.16999
.306	15.136	-.01438	.72429	-.00895	.02470	-.00231	-.00313	.01296	.70632	.18192	3.91895
.307	16.255	-.00536	.84609	-.01341	.01511	-.00193	-.00252	.01395	.77762	.21275	3.65486
.308	17.232	-.01331	.93327	-.01114	.00663	-.00192	-.00226	.01292	.84592	.25123	3.37383
.309	18.239	-.01470	.93343	-.00407	.00453	-.00594	-.00456	.01714	.89295	.29187	2.99107
.310	19.297	-.00372	1.03545	.00502	.00036	-.00313	-.00301	.00859	.94732	.33400	2.61100
.311	20.333	-.00234	1.12791	.00577	-.00399	.00001	-.00252	.01684	.99955	.37598	2.35567
.312	21.310	-.01554	1.12720	.00268	-.00716	.00290	-.00296	.01412	1.04920	.41216	2.04610
.313	22.425	-.00789	1.22973	-.00008	-.01131	.00310	-.00301	.00957	1.13652	.46953	2.42002
.314	23.451	-.00035	1.04513	-.00105	.00047	-.00007	.00003	-.00004	.04499	-.00049	.05031

GRADIENT

LA618 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(RJ002) (30 JUL 76)

LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 2.000 ELEVON = .000
 AILRON = .000

PARAMETRIC DATA

RUN NO. 22/ 0 RN/L = 2.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.150	-2.257	.0054	-.1293	.06454	.02152	-.00186	-.00006	-.00432	-.12574	.06954	-1.80812
.150	-1.296	-.0022	-.07066	.06624	.02561	-.00158	-.00225	-.00162	-.06915	.06782	-1.01966
.150	-.225	.0029	-.03351	.06635	.02096	-.00183	-.00160	-.00036	-.03365	.06548	-.50012
.150	.780	-.00303	.01937	.05529	.02220	-.00199	-.00167	-.00134	.01848	.06554	.28159
.150	.793	.00077	.05192	.05390	.02626	-.00231	-.00176	-.00472	.04990	.06549	.76188
.150	3.855	.00041	.4929	.05855	.02684	-.00270	-.00012	-.00397	.14521	.06548	2.12052
.150	5.817	-.00135	.25090	.04993	.02098	-.00297	-.00077	-.00600	.24454	.07510	5.24553
.150	7.992	.00321	.75024	.03641	.02177	-.00265	.00050	-.00566	.34154	.06613	5.20110
.150	8.916	-.00333	.45344	.02500	.01755	-.00365	.00163	-.01353	.54237	.10268	3.30410
.150	11.000	.00652	.15194	.01111	.01993	-.00331	.00264	-.00316	.50614	.11535	3.49320
.150	11.996	-.01263	.55420	.01119	.02172	-.00294	-.00002	-.00190	.53958	.2313	4.29036
.150	13.231	-.00233	.61437	.00266	.02381	-.00248	.00080	-.00480	.59747	.1437	4.17334
.150	13.636	-.02122	.61860	-.00236	.02410	-.00266	.00317	.00082	.63563	.15514	4.07312
.150	15.070	-.02375	.71110	-.00989	.02279	-.00318	.00245	.00509	.69501	.17659	3.32311
.150	16.050	-.01452	.73410	-.01504	.01839	-.00615	-.00800	-.05171	.75799	.20241	3.17486
.150	17.023	-.03571	.94907	-.02013	.01315	-.03337	-.00121	.00276	.81732	.22994	3.55711
.150	18.009	-.04558	.92070	-.02071	.00694	-.00303	-.00172	.00731	.89101	.25092	3.51736
.150	20.267	-.03105	1.05938	-.00918	-.00551	-.00430	-.00546	.00897	1.06694	.36197	2.73134
.150	22.155	-.02617	1.21546	-.01328	-.01731	-.00210	-.00326	.00354	1.13661	.44639	2.53277
.150	GRADIENT	.00005	.04434	-.00104	.00072	-.00011	.00027	-.00023	.04350	-.00022	.53058

L618 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(RJT003) (30 JUL 76)

LARC LTPT 228(L618)B26C9E43F8M16N28R5V8W

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 CREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6000 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 2.500 ELEVON = .000
 AILRON = .000

RUN NO. 21/ 0 RN/L = 2.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.351	-2.315	.00502	-.14657	.08321	.02418	-.00150	-.00022	-.00048	-.14389	.06908	-2.08316
.349	-1.201	.00254	-.09751	.05433	.02479	-.00155	-.00047	-.00046	-.09613	.06702	-1.43429
.343	-.122	.00082	-.04810	.05576	.02436	-.00169	-.00119	-.00025	-.04792	.06590	-.72718
.350	.792	-.00191	-.01452	.05335	.02584	-.00177	.00009	-.00065	-.01541	.06375	-.24156
.351	1.817	-.00300	.04236	.05393	.02519	-.00176	-.00104	-.00140	.04034	.06424	.62796
.351	3.958	-.00377	.12343	.05709	.02446	-.00204	.00001	-.00003	.13427	.06627	2.02605
.350	5.922	-.01140	.23539	.04803	.02197	-.00205	-.00066	-.00112	.23247	.07238	3.51177
.351	8.001	-.01613	.34309	.03589	.02077	-.00242	-.00062	-.00271	.33573	.08353	4.02998
.350	10.056	-.01755	.43052	.02219	.01807	-.00288	-.00003	-.01297	.43983	.10053	4.37432
.352	12.125	-.02150	.55523	.03516	.02314	-.00277	.00041	-.00252	.54408	.12324	4.54324
.352	14.182	-.03940	.67550	.03509	.02076	-.00305	-.00034	-.00096	.65616	.16396	4.08660
.350	16.271	-.04733	.81478	-.01584	.01025	-.00352	-.00121	-.00125	.78558	.21312	3.63143
.350	17.370	-.03454	.91762	-.00954	-.00110	-.00241	-.00175	.00017	.85953	.25697	3.53338
.350	18.391	-.05235	.94975	.03105	-.00095	-.00275	-.00391	.00459	.90091	.30064	2.93683
.350	19.442	-.04371	1.01777	.00339	-.00453	-.00380	-.00205	-.00189	.95850	.34196	2.60323
.352	20.572	-.06608	1.09835	.00417	-.01040	-.00125	-.00010	-.00769	1.01795	.38651	2.63370
.352	22.561	-.03977	1.23655	-.00133	-.01850	-.00195	.00043	-.00425	1.14252	.47323	2.41450
	GRADIENT	-.00219	.04610	-.00105	.00008	-.00009	.00003	-.00005	.04499	-.00051	.66977

LAG1B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

PAGE 4

LARC LTPT 228(LAG1B)B26C9E43FBM16N28R5VBH

(RJT004) (30 JUL 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

BETA =
 RUDDER =
 RN/L =
 AILRON =

.000 BDFLAP = .000
 .000 SPDBRK = 25.000
 3.500 ELEVON = .000

PARAMETRIC DATA

RUN NO. 2/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CHL	CYN	CY	CL	CD	L/D
.300	-2.325	.00270	-.15144	.06231	.02583	-.00124	-.00003	-.00302	-.14878	.06840	-2.17511
.299	-1.278	.00103	-.10287	.06408	.02608	-.00115	-.00079	-.00074	-.10141	.06636	-1.52826
.300	-.252	.00206	-.05431	.06486	.02549	-.00137	.00019	-.00332	-.05403	.06510	-.82995
.299	.791	.00051	-.01160	.06439	.02721	-.00152	-.00060	-.00036	-.01249	.06423	-.19448
.300	1.797	.00189	.03673	.06260	.02676	-.00166	-.00016	-.00236	.03475	.06373	.54531
.299	3.195	-.00000	.13998	.05660	.02702	-.00149	-.00042	-.00148	.13581	.06596	2.05847
.299	6.052	.00262	.24144	.04703	.02390	-.00182	-.00037	-.00014	.23514	.07222	3.25587
.301	8.025	.00386	.33723	.03514	.02215	-.00007	-.00124	.01276	.32922	.08166	4.01819
.300	10.121	.00519	.44952	.02071	.02154	-.00197	-.00039	.00124	.43699	.09938	4.41628
.300	11.160	.00390	.49337	.01293	.02224	-.00224	-.00054	-.00187	.46741	.10938	4.45599
.300	12.250	.00124	.55353	.00524	.02480	-.00221	-.00125	.00086	.53931	.12259	4.40415
.300	13.231	.00463	.60462	-.00178	.02574	-.00199	-.00120	.00175	.58998	.13663	4.31028
.302	14.222	-.00565	.67354	-.00932	.02611	-.00208	-.00061	.00189	.65515	.15963	4.16265
.299	15.461	-.00290	.74041	-.01850	.02256	-.00247	-.00064	-.00061	.71843	.18003	3.93064
.299	16.494	-.00537	.80248	-.02435	.01792	-.00259	-.00153	.00368	.77636	.20450	3.79546
.299	17.461	.00354	.96592	-.02837	.01310	-.00329	-.00202	.00387	.83470	.23218	3.59510
.300	18.548	-.01010	.94248	-.03062	.00740	-.00335	-.00276	.00693	.90327	.27077	3.33593
.301	19.545	.00455	1.01580	-.02062	-.00024	-.00006	-.00410	.00790	.96417	.32040	3.00930
.300	20.605	.00126	1.09280	-.01614	-.00574	-.00128	-.00249	.00784	1.02857	.36949	2.78378
.300	21.671	-.00479	1.17021	-.01712	-.01396	-.00174	-.00259	.00728	1.09382	.41621	2.52805
.298	23.167	.00048	1.27529	-.02020	-.01999	-.00324	-.00426	.01217	1.18041	.48314	2.44319
	GRADIENT	-.00337	.04653	-.00094	.00023	-.00006	-.00002	.00055	.04543	-.00042	.68036

LAB18 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

PAGE 5

LARC LTPT 225 LAB18)226CSE43F816N2UR5V8W

(RJTC05) (30 JUL 76)

REFERENCE DATA

SPE = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.6000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

BETA =
 RUDDER =
 RN/L =
 AILRON =

2.000 BDELAP = .000
 .000 SPDBRK = 25.000
 3.500 ELEVON = .000

PARAMETRIC DATA

RUN NO. 3/ C PN/L = 3.5 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.301	-.029	1.8339	-.05649	.06524	.02755	-.00333	.00264	-.03481	-.05646	.06527	-.86504
.300	1.834	1.8395	.03449	.06327	.02762	-.00402	.00158	-.03826	.03238	.06437	.50299
.299	3.923	1.92033	.13285	.05749	.02698	-.00484	.00233	-.03881	.12961	.06652	1.94958
.298	5.971	1.98428	.23275	.04765	.02547	-.00521	.00291	-.03733	.22653	.07160	3.16390
.298	8.075	1.97197	.33803	.03516	.02333	-.00612	.00273	-.04012	.32974	.08229	4.00709
.300	10.119	1.95238	.44825	.02105	.0224	-.00717	.00226	-.03872	.43462	.09995	4.39241
.299	11.181	1.94143	.50070	.01349	.02377	-.00801	.00191	-.03955	.46858	.11033	4.42852
.300	12.230	1.95949	.55336	.00573	.02605	-.00829	.00206	-.03323	.54017	.12295	4.39323
.300	13.277	1.98182	.60807	-.00198	.02543	-.00844	.00237	-.03961	.59227	.13772	4.30053
.299	14.309	1.99431	.66639	-.00959	.02345	-.00873	.00253	-.03991	.64869	.15546	4.17260
.298	15.331	1.94605	.73219	-.01732	.02305	-.00907	.00176	-.03707	.71050	.17773	3.99772
.298	16.413	.86500	.79511	-.02343	.01923	-.00856	.00063	-.03682	.76933	.20219	3.60494
.298	17.445	.86491	.85643	-.02559	.01581	-.00798	.00044	-.03501	.82504	.23129	3.16717
.297	18.492	.95853	.94664	-.02573	.00651	-.00337	-.00056	-.02927	.90592	.27584	3.28427
.295	19.555	1.94552	1.02008	-.01613	.00237	-.00522	-.00113	-.03276	.96747	.32390	2.96598
.300	20.582	.99435	1.06596	-.01517	-.00321	-.00677	.00057	-.03468	1.02326	.36598	2.78834
	GRADIENT	.02956	C46.7	-.00197	-.00015	-.00038	-.00007	-.00101	.04709	.00032	.71195

LA61B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

PAGE 5

'RJ006' (30 JUL 76)

LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W

REFERENCE DATA

SREF = 2690.0000 SC FT. XMRP = 1076.7000 IN. YO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 PREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SC'E = .0150

BETA =
 RUDDER =
 RN/L =
 AILRON =

-2.000 BDFLAP = .000
 .000 SPOBRK = 25.000
 3.500 ELEVON = .000
 .000

PARAMETRIC DATA

RUN NO. 4/ 0 RN/L = 3.43 GRADIENT INTERVAL = -5.20/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	-/D
.301	-.013	-1.80293	-.03558	.06520	.02862	-.00065	-.00366	.03436	-.03563	.06520	-.54697
.300	1.894	-1.87849	.05052	.06304	.02763	-.00009	-.00374	.03343	.04841	.06458	.74847
.301	3.937	-1.92632	.14454	.05697	.02686	.00010	-.00369	.02864	.14029	.06676	2.10133
.299	5.975	-1.95820	.24151	.04752	.02604	.00079	-.00220	.03186	.23535	.07241	3.25009
.299	8.082	-1.97078	.34875	.03535	.02500	.00102	-.00365	.02890	.34035	.08374	4.06448
.298	10.154	-1.95522	.45447	.01256	.02245	.00320	-.00394	.03370	.44408	.09840	4.51307
.298	11.191	-1.95994	.50620	.01286	.02335	.00315	-.00339	.03482	.43409	.11087	4.45558
.297	12.233	-1.97646	.55559	.05514	.02620	.00238	-.00407	.03341	.54492	.12340	4.11578
.297	13.264	-1.97742	.60354	-.00232	.02711	.00287	-.00424	.03462	.59381	.13753	4.31563
.297	14.319	-1.99125	.67156	-.00394	.02612	.00285	-.00467	.03514	.65313	.14656	4.17189
.297	15.374	-1.94435	.73622	-.01758	.02483	.00260	-.00262	.03531	.71492	.17834	4.00975
.296	16.394	-1.94435	.80441	-.02424	.02138	.00254	-.00357	.03292	.75777	.20291	3.95216
.295	17.513	-1.97419	.87403	-.03018	.01564	.00151	-.00439	.03522	.84260	.23423	3.99728
.294	18.530	-1.95160	.94203	-.03034	.01118	.00276	-.00166	.03355	.90372	.27191	3.33466
.293	19.530	-1.94457	1.02365	-.02328	.00284	.00453	-.00548	.03897	.97376	.32292	3.01545
.291	20.529	-2.00335	1.09426	-.01635	-.00161	.00408	-.00830	.04397	1.03082	.36762	2.90401
	GRADIENT	-.03116	.04563	-.00044	-.00044	.00019	-.00001	-.00144	.04455	.00040	.67036

LA618 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

PAGE 7

LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8M

(RJ007) (30 JUL 76)

REFERENCE DATA

SPEF = 2530.0000 SQ.FT. XMRP = 1076.7000 IN. YO
 LREF = 474.8000 INCHES YMRP = .0000 IN. TO
 BREF = 936.8000 INCHES ZMRP = 375.0000 IN. Z
 SCALE = .0150

BETA =
 RUDDER =
 RN/L =
 ALLCON =

BOFLAP =
 SPDBRK =
 ELEVON =

RUN NO. 79/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.289	-2.343	-.00206	-.15433	.06298	.02732	-.00117	-.00138	.00361	-.15132	.06923	-2.18556
.289	-1.315	-.00291	-.10234	.05481	.02633	-.00117	-.00099	.00559	-.10083	.06715	-1.50164
.288	-.275	-.00224	-.05498	.06552	.02701	-.00130	-.00096	.00396	-.05466	.06579	-.83091
.289	.786	-.00327	-.00702	.06475	.02737	-.00121	-.00143	.00536	-.00790	.06464	-.12227
.289	1.869	-.00278	.04349	.06332	.02709	-.00150	-.00129	.00421	.04140	.06471	.67974
.287	3.899	-.00311	.13675	.05675	.02818	-.00164	-.00106	.00295	.13258	.06592	2.01123
.289	5.999	-.00237	.24214	.04782	.02478	-.00166	-.00133	.00357	.23581	.07297	3.25619
.288	8.108	-.00766	.34717	.03481	.02256	-.00201	-.00114	.00351	.33879	.08342	4.05126
.289	10.264	-.00573	.46056	.01912	.02161	-.00193	-.00134	.00342	.44988	.10090	4.45977
.289	11.235	-.00848	.50754	.01206	.02140	-.00220	-.00143	.00430	.49547	.11072	4.47516
.287	12.309	-.01280	.55161	.00411	.02551	-.00251	-.00101	.00116	.54782	.12314	4.42715
.288	13.307	-.00754	.61403	-.00317	.02632	-.00250	-.00104	.00425	.53828	.13524	4.36715
.288	14.355	-.00955	.67074	-.01102	.02781	-.00219	-.00090	.00298	.52553	.15681	4.19325
.288	15.417	-.00311	.73555	-.01924	.02562	-.00231	-.00071	.00333	.71289	.17645	4.03052
.288	16.502	-.00542	.80494	-.02654	.02134	-.00274	-.00160	.00300	.77935	.20310	3.83722
.288	17.563	-.00393	.87651	-.03203	.01601	-.00344	-.00256	.00592	.84532	.23396	3.61310
.287	18.573	-.00589	.94305	-.03501	.00931	-.00325	-.00257	.00500	.90503	.26718	3.36760
.283	19.649	-.00998	1.01819	-.02785	.00301	-.00042	-.00178	.00474	.96827	.31614	3.05273
.289	20.697	-.01563	1.08648	-.02525	-.00286	-.0003	-.0004	.00226	1.02329	.36077	2.84509
.290	21.759	-.02667	1.15135	-.02622	-.00942	-.00176	.00133	.00244	1.08832	.40617	2.67949
.296	22.856	.01550	1.24332	-.02214	-.71551	-.00370	-.00105	.00038	1.15429	.46252	2.43364
		-.00014	.04631	-.00100	.00018	-.00008	.00001	-.00018	.04520	-.00053	.67247

GRADIENT

ORIGINAL PAGE 1
 OF POOR QUALITY

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

BETA =
 RUDDER =
 RN/L =
 AILRON =

.000 BOP AP =
 .000 SPDERK =
 4.000 ELEVON =
 .000

RUN NO. 5/ 0 RN/L = 4.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	(Y	CL	CD	L/D
.349	-2.364	-.00333	-.15686	.06261	.02716	-.00141	-.00090	.00108	-.15415	.06903	-2.23318
.349	-1.305	-.00179	-.10726	.06434	.02757	-.00142	-.00085	.00127	-.10576	.06677	-1.58402
.350	-.278	-.00004	-.05870	.06501	.02640	-.00161	-.00079	.00042	-.05838	.06529	-.85419
.350	.760	-.00191	-.01116	.06430	.02786	-.00149	-.00030	.00307	-.01202	.06415	-.18111
.350	1.809	.00093	.03852	.06280	.02724	-.00161	-.00110	.00336	.03552	.06398	.57040
.348	3.297	.00094	.13778	.05701	.02710	-.00172	-.00089	.00242	.13359	.06624	2.01669
.349	6.020	-.00020	.24079	.04694	.02504	-.00182	-.00229	.00273	.23454	.07194	3.25022
.351	8.120	.00714	.35010	.03363	.02113	-.00197	-.00062	.00251	.34183	.09274	4.11121
.352	10.335	.00331	.46236	.01797	.02100	-.00210	-.00124	.00432	.45163	.10063	4.46826
.350	11.357	.00260	.51524	.00330	.02367	-.00227	-.00076	.00379	.50313	.11152	4.51152
.349	12.313	.00116	.56345	.00473	.02544	-.00227	-.00073	.00376	.54978	.12358	4.45605
.349	13.413	.00343	.62423	-.00473	.02639	-.00211	-.00131	.00431	.60830	.14227	4.33873
.349	14.514	-.00893	.68383	-.01286	.02559	-.00217	-.00090	.00604	.66523	.15850	4.15044
.349	16.565	.00530	.81915	-.02646	.01856	-.00332	-.00053	.00328	.75273	.20918	3.87792
.349	17.631	.00148	.88971	-.02875	.00976	-.00312	-.00131	.00379	.85553	.24207	3.51877
.351	18.737	-.00542	.97055	-.02125	.00225	-.00080	-.00273	.00853	.92594	.29163	3.17506
.350	20.907	.00033	1.13195	-.01402	-.01391	-.00072	-.00207	.00837	1.06250	.39066	2.71973
.349	21.934	.00594	1.21118	-.01676	-.02038	-.00057	-.00160	.00822	1.12977	.43587	2.56608
.352	23.048	.00753	1.29818	-.01694	-.02768	-.00057	-.00153	.00461	1.20115	.49273	2.43772
	GRADIENT	.00064	.04700	-.00092	-.00000	-.00005	-.00001	.00029	.04590	-.00047	.66308

LARC LTPT 228(LA61B)B26C9E43F8M16N2SR5V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

BETA = .000 BDFLAP = .000
RUDDER = .000 SPDBRK = 25.000
RN/L = 4.000 ELEVON = .000
AILRON = .000

PARAMETRIC DATA

RUN NO. 28/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.150	-2.334	.09556	-.15708	.06368	.02690	-.00232	.00013	-.01534	-.15436	.07002	-2.20440
.150	-1.310	.00836	-.11243	.06560	.02603	-.00218	-.00023	-.01871	-.11050	.06815	-1.82736
.149	-.242	.00727	-.06134	.06663	.02655	-.00240	-.00037	-.01910	-.06106	.06589	-.91281
.149	.783	.00556	-.01200	.06574	.02655	-.00250	-.00014	-.01932	-.01289	.06557	-.19665
.150	1.820	.00593	.03825	.06430	.02578	-.00307	.00097	-.0221	.03619	.06548	.55266
.151	3.984	.00527	.13902	.05837	.02630	-.00301	.00115	-.02174	.13463	.06789	1.92736
.149	5.861	.00096	.25962	.04960	.02459	-.00292	.00033	-.01933	.22335	.07279	3.06645
.150	7.935	-.00286	.33076	.03700	.02235	-.00316	.00190	-.01206	.32249	.08231	3.91790
.150	10.186	-.00393	.44472	.02142	.02061	-.00320	.00117	-.01677	.43392	.09373	4.75090
.149	11.007	-.00494	.49099	.01452	.01899	-.00356	.00077	-.01806	.47917	.10810	4.43276
.150	12.044	-.01197	.53315	.00751	.02413	-.00355	.00162	-.01788	.51986	.11859	4.35375
.150	13.066	-.00785	.56347	.00201	.02552	-.00393	.00140	-.02193	.55472	.12375	4.73853
.150	14.142	-.03585	.64746	-.00802	.02502	-.00408	.00259	-.02278	.62979	.15043	4.18597
.150	15.182	-.03781	.70264	-.01647	.02614	-.00397	.00159	-.01921	.68262	.16917	4.05911
.150	16.348	-.00607	.77398	-.02631	.02417	-.00393	.00223	-.01655	.74939	.19258	3.89443
.150	17.170	-.01729	.81983	-.03261	.02148	-.00423	.00174	-.02448	.79292	.21087	3.75027
.150	18.646	-.01419	.92855	-.04335	.01598	-.00410	-.00322	-.01368	.89277	.25892	3.44800
.150	19.374	-.02057	.96174	-.04587	.01211	-.00407	-.00112	-.01363	.92250	.27577	3.34514
.150	20.315	-.01747	1.03754	-.04956	.00717	-.00433	-.00248	-.01613	.98083	.31027	3.15125
.150	21.327	-.02474	1.03596	-.04876	.00235	-.00332	-.00322	-.00591	1.03957	.35252	2.94063
.149	22.378	-.01561	1.16998	-.03743	-.00476	-.00173	.00286	-.02200	1.09512	.41052	2.65915
	GRADIENT	-.00354	.04718	-.00088	-.00008	-.00014	.00022	-.00053	.04605	-.00038	.67170

LASIB (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

PAGE 10

LARC LTPT 228(LA61B)B26C9E43FBM16N28R5VBW

(RJ009) (30 JUL 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

BETA =
 RUDDER =
 RN/L =
 AIRLON =

BDFLAP = .000
 SPDBRK = 25.000
 ELEVON = .000

PARAMETRIC DATA

RUN NO. 25/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.200	-2.306	.00789	-.15083	.06302	.02476	-.00177	.00029	-.00890	-.14817	.08904	-2.14630
.200	-1.287	.00409	-.10511	.05466	.02634	-.00167	.00033	-.00527	-.10363	.06701	-1.54650
.200	-.242	.00392	-.04807	.06593	.02740	-.00118	-.00104	-.00691	-.04779	.06613	-.72269
.200	.806	-.00121	-.00593	.06502	.02649	-.00167	.00025	.00034	-.00685	.08493	-.10545
.200	1.785	-.00076	.04035	.06308	.02542	-.00174	-.00031	-.00391	.03836	.06431	-.59650
.199	4.052	-.00590	.14572	.05685	.02454	-.00195	-.00032	-.00435	.14134	.08701	2.10923
.199	5.889	-.00330	.23796	.04858	.02285	-.00254	.00101	-.01250	.23172	.07274	3.18578
.200	8.149	-.00938	.34661	.03218	.02317	-.00192	-.00110	-.00341	.33855	.08099	4.18023
.200	10.060	-.01263	.44349	.02101	.02023	-.00210	.00022	-.00528	.43300	.09316	4.41140
.200	11.132	-.01266	.49150	.01409	.02171	-.00256	.00050	-.00884	.43553	.10872	4.41031
.200	12.189	-.01291	.55059	.00562	.02402	-.00240	.00008	-.00725	.53699	.12174	4.32592
.200	13.137	-.01195	.59459	-.00126	.02536	-.00253	-.00012	-.00741	.57931	.13392	4.21566
.200	14.214	-.01334	.65350	-.00992	.02664	-.00279	.00079	-.00771	.63593	.15085	4.07536
.199	15.218	-.01743	.71132	-.01780	.02564	-.00291	.00060	-.00655	.69105	.16954	3.84626
.200	16.385	-.02421	.78169	-.02717	.02205	-.00287	.00008	-.00573	.75761	.19444	3.71017
.200	17.349	-.02095	.83995	-.03322	.02053	-.00263	.00039	-.00452	.81164	.21876	3.53557
.200	18.316	-.03650	.90229	-.03975	.01535	-.00332	-.00116	-.00351	.86907	.24581	3.30553
.199	19.395	-.02551	.97374	-.04360	.01054	-.00328	-.00092	-.00264	.93295	.26824	3.06739
.200	20.429	-.02416	1.05693	-.04388	.00317	-.00284	-.00371	-.00355	1.00765	.32850	2.80167
.200	21.452	-.02982	1.11454	-.03520	-.00285	-.00090	.00166	-.01226	1.05021	.37485	2.62649
.200	22.507	-.04418	1.19701	-.03447	-.00675	-.00056	.00260	-.00747	1.10979	.42354	.67342
	GRADIENT	-.00209	.04660	-.00101	-.00015	-.00004	-.00008	.00070	.04549	-.00036	

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 336.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

BETA =
 RUDDER =
 RN/L =
 AILRON =

BOFLAP = .000
 SPOBRK = .000
 ELEVON = .000

PARAMETRIC DATA

RUN NO. 24/ 0 RN/L = 4.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CL	CYN	CY	CL	CD	L/D
.250	-2.394	.00590	-1.15287	.06218	.02586	-.00125	-.00084	-.00286	-.15014	.06851	-2.19151
.250	-1.380	.00623	-1.10710	.06423	.02542	-.00154	.00002	-.00716	-.10552	.06579	-1.58000
.250	-.270	.00257	-.05310	.06510	.02580	-.00145	-.00028	-.00393	-.05279	.06535	-.80783
.250	.777	.00093	-.00469	.06452	.02626	-.00165	.00000	-.00368	-.00556	.06445	-.08634
.250	1.791	-.00238	.04126	.06316	.02569	-.00161	-.00045	-.00271	.03927	.06442	.60949
.250	3.843	-.00320	.13666	.05741	.02502	-.00178	-.00049	-.00509	.13251	.06544	1.99432
.249	5.915	-.00688	.23367	.04965	.02356	-.00189	-.00018	-.00488	.22751	.07348	3.09596
.249	8.067	-.04530	.34437	.03474	.02102	-.00203	-.00018	-.00394	.33609	.08273	4.06251
.250	10.128	-.00901	.45278	.01990	.01956	-.00248	.00075	-.00815	.44223	.09921	4.45734
.248	12.181	-.01942	.50371	.01206	.02185	-.00247	-.00004	-.00409	.43188	.10921	4.50411
.248	13.682	-.01488	.63311	.00464	.02123	-.00254	.00033	-.00571	.53843	.12097	4.45097
.248	14.253	-.01757	.66242	-.00618	.02589	-.00291	.00043	-.00593	.61661	.14374	4.28974
.250	15.429	-.02600	.72321	-.01074	.02527	-.00297	-.00001	-.00618	.64464	.15279	4.21903
.251	16.541	-.02147	.79660	-.02005	.02313	-.00276	.00043	-.00270	.70827	.17469	4.05473
.250	17.870	-.01678	.86625	-.02843	.02067	-.00304	-.00043	-.00469	.77170	.19963	3.86556
.249	18.465	-.02394	.92361	-.03597	.01484	-.00374	-.00144	-.00101	.85450	.23781	3.59315
.250	19.503	-.03021	.93867	-.04172	.01111	-.00315	-.00199	.00651	.88826	.25598	3.47004
.251	20.552	-.02639	1.06579	-.03229	.00607	-.00344	-.00137	-.00139	.95530	.29408	3.24838
.250	21.727	-.04134	1.15193	-.02981	.00016	-.00078	.07383	-.00578	1.00929	.34393	2.93458
.251	22.688	-.01983	1.20990	-.03252	-.00702	-.00110	.00361	-.00881	1.08118	.39875	2.71146
		-.00171	.04649	-.00078	-.01051	-.00297	.00359	-.01329	1.12882	.43668	2.58502
					-.00009	-.00007	.00001	.00002	.04538	-.00036	.67628

GRADIENT

(RJ008) (30 JUL 76)

LARC LTPT 228(LA61B)B26C9E43FE16N28R5V8M

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 935.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

BETA =
RUDDER =
RV/L =
AILRON =

BDFLAP = .000
SPDRK = .000
ELEVON = .000

PARAMETRIC DATA

RUN NO. 23/ 0 RV/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.300	-2.337	.00318	-.15042	.06238	.02625	-.00106	-.00100	-.00059	-.14775	.06845	-2.15821
.300	-1.335	.00093	-.10131	.06412	.02666	-.00116	-.00005	.00057	-.09982	.06641	-1.50314
.300	-.266	.00042	-.05567	.06469	.02597	-.00124	-.00074	.00038	-.05537	.06495	-.85248
.300	.952	.00027	.00131	.06393	.02573	-.01183	-.00026	-.00302	.00024	.06394	.00381
.300	1.797	-.00312	.04267	.06285	.02612	-.00153	-.00017	-.00137	.04068	.06415	.63405
.299	3.861	-.00195	.14118	.05708	.02477	-.00181	.00021	-.00568	.13702	.06646	2.06181
.300	6.040	-.00562	.24494	.04581	.02328	-.00184	.00030	-.00500	.23866	.07232	3.30005
.300	8.077	-.00769	.24901	.03410	.02056	-.00204	.00045	-.00470	.34075	.08280	4.11528
.301	10.140	-.01483	.45550	.01950	.01995	-.00215	.00016	-.00256	.44495	.09938	4.47709
.301	11.295	-.0142	.50764	.01159	.02152	-.00254	.00017	-.00651	.49570	.11011	4.50186
.300	12.228	-.02055	.55758	.00424	.02363	-.00235	-.00038	-.00163	.54413	.12227	4.45025
.301	13.318	-.02467	.61419	-.00373	.02525	-.00272	.00025	-.00184	.59853	.13785	4.34186
.301	14.369	-.01829	.67437	-.01176	.02478	-.00272	.00012	-.00551	.65619	.15536	4.20736
.301	15.413	-.02117	.73562	-.01955	.02243	-.00267	.00037	-.00232	.71439	.17656	4.04612
.301	16.435	-.02659	.80113	-.02661	.01853	-.00310	-.00023	-.00347	.77593	.20113	3.85777
.301	17.493	-.03558	.87183	-.03179	.01334	-.00371	-.00127	.00033	.84106	.23174	3.62925
.302	18.570	-.02323	.94968	-.03468	.00689	-.00354	-.00102	-.00028	.91128	.26956	3.38059
.301	19.637	-.03659	1.02333	-.02735	.00083	-.00077	-.00006	-.00213	.97301	.31813	3.05857
.301	20.714	-.03425	1.09629	-.02397	-.00733	-.00062	.00165	-.00906	1.03390	.36535	2.82389
.301	22.784	-.03137	1.23336	-.02301	-.01676	-.00523	.00078	-.00269	1.15157	.45873	2.51033
	GRADIENT	.00086	.04595	-.00585	-.00024	-.00013	.00015	-.00089	.04585	-.00035	.68443

REFERENCE DATA

SREF = 2690.0000 SQ.FT. YMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.8800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 5.000 ELEVON = .000
 ATLON = .000

RUN NO. 78/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.288	-2.377	.00016	-1.15688	.06274	.02845	-.00079	-.00067	.00131	-.15414	.06920	-2.22752
.286	-1.337	-.00210	-1.10808	.06449	.02812	-.00081	-.00060	.00273	-.10714	.06701	-1.59887
.289	-.293	-.00202	-.06535	.06406	.02803	-.00070	-.00087	.00281	-.06502	.06439	-1.00987
.289	.815	-.00178	-.00937	.06486	.02790	-.00100	-.00091	.00239	-.01029	.06472	-.15897
.288	1.846	.00000	.01009	.06443	.02838	-.00115	-.00074	.00097	.03800	.06569	.57840
.288	4.013	.00032	.14393	.06630	.02760	-.00135	-.00035	.00166	.13959	.06683	2.08882
.288	6.129	-.00209	.24702	.04631	.02533	-.00153	-.00037	.00024	.24060	.07301	3.29529
.289	8.198	-.00255	.35242	.03310	.02304	-.00162	-.00102	.00136	.34410	.08302	4.14478
.289	10.343	-.00070	.46302	.01708	.02154	-.00153	-.00061	.00022	.45243	.09993	4.52756
.289	11.334	.00215	.51368	.00958	.02335	-.00178	-.00116	.00124	.49882	.10986	4.54047
.288	12.376	.00096	.56398	.00179	.02523	-.00202	-.00065	.00035	.54951	.12241	4.48906
.288	13.421	-.00767	.61543	-.00615	.02602	-.00231	-.00087	.00098	.60102	.13709	4.38408
.288	14.516	-.00615	.67904	-.01481	.02649	-.00232	-.00077	.00109	.66108	.15587	4.24116
.287	15.565	.00350	.73970	-.02340	.02450	-.00254	-.00070	.00048	.71885	.17594	4.08577
.288	16.639	.00335	.80210	-.03192	.02297	-.00231	-.00068	.00093	.77766	.19909	3.90611
.286	17.680	-.00012	.87279	-.03953	.01821	-.00240	-.00139	.00261	.84359	.22735	3.71057
.263	18.809	.00304	.94503	-.04489	.01128	-.00247	-.00216	.00282	.90903	.26220	3.46697
.288	19.994	-.02487	1.02723	-.03616	.00353	-.00064	-.00217	.00380	.97768	.31725	3.08176
.287	20.914	.00019	1.09325	-.03377	.00051	.00033	-.00115	.00237	1.02394	.35513	2.88329
.287	23.139	.00102	1.23641	-.03418	-.00329	.00084	.00217	-.00497	1.15038	.45443	2.53148
.287	GRADIENT	.00020	.04717	-.00082	-.00009	-.00010	.00004	-.00009	.04606	-.00029	.68204

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

BETA =
 RUDDER =
 RN/L =
 AILRON =

PARAMETRIC DATA

.000 BDFLAP = .000
 .000 SPDBRK = 25.000
 6.000 ELEVON = .000
 .000

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.290	-2.353	.00111	-.16142	.06281	.02824	-.00110	-.00058	-.00082	-.15870	.06939	-2.28719
.290	-1.375	.00459	-.11342	.06445	.02772	-.00136	-.00005	-.00434	-.11184	.05715	-1.66558
.290	-.299	.00246	-.06522	.06536	.02750	-.00136	-.00061	-.00196	-.06488	.06570	-.98756
.289	.791	-.00392	-.01250	.06499	.02796	-.00132	.00100	.00115	-.01340	.06481	-.20675
.290	1.873	.00239	.03819	.06331	.02749	-.00141	-.00046	-.00181	.03610	.06452	.55944
.289	3.935	.00268	.13697	.05759	.02680	-.00167	-.00022	-.00210	.13269	.06685	1.98496
.290	6.078	.00371	.24442	.04712	.02533	-.00187	-.00003	-.00305	.23806	.07274	3.27277
.291	8.220	.00290	.35460	.03293	.02281	-.00198	-.00054	-.00301	.34624	.08332	4.15543
.291	10.372	-.02137	.46398	.01703	.02152	-.00212	-.00010	-.00462	.45324	.10027	4.52023
.289	11.390	-.00205	.51271	.00912	.02341	-.00221	-.00052	-.00193	.50081	.11019	4.54487
.289	12.438	.00405	.56719	.00060	.02525	-.00264	-.00010	-.00295	.55375	.12275	4.51109
.291	13.705	.00403	.63266	-.00945	.02529	-.00273	-.00053	-.00256	.61689	.14071	4.38399
.290	14.584	.00533	.68113	-.01675	.02498	-.00288	-.00033	-.00272	.66341	.15529	4.27207
.290	15.677	.00518	.74059	-.02631	.02395	-.00248	-.00026	.00086	.72006	.17508	4.11281
.290	16.738	.00130	.80779	-.03525	.02144	-.00232	-.00051	-.00223	.78371	.19889	3.94038
.290	17.841	.00767	.87866	-.04415	.01790	-.00204	-.00086	-.00360	.84993	.22718	3.74127
.290	18.906	.01604	.94987	-.05117	.01178	-.00216	-.00067	-.00278	.91521	.25936	3.52879
.289	19.995	.00160	1.02090	-.04543	.00545	-.00081	-.00003	-.00314	.97489	.30639	3.18182
.290	21.216	.00461	1.08952	-.04117	.00070	-.00023	-.00037	-.00284	1.03058	.35590	2.89574
.290	21.532	.00768	1.11075	-.03992	-.00152	-.00025	-.00033	-.00287	1.04789	.37053	2.82810
.291	23.338	.00974	1.21913	-.04180	-.00716	-.00110	-.00033	-.00440	1.13594	.44459	2.55505
	GRADIENT	-.00007	.04732	-.00083	-.00018	-.00007	.00004	.00008	.04621	-.00042	.58293

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 6.000 ELEVON = .000
 AILRON = .000

RUN NO. 16/ 0 RN/L = 5.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.151	-2.319	-.04177	-.14842	.06104	.02552	-.00181	-.00143	.00168	-.14583	.06700	-2.17666
.151	-.248	-.00627	-.05244	.06387	.02561	-.00164	-.00158	.00578	-.05217	.06410	-.81381
.151	.781	-.01435	-.00772	.06314	.02651	-.00155	-.00155	.00155	-.00858	.06303	-.13608
.152	1.813	.03196	.04230	.06176	.02602	-.00200	-.00115	.00001	.04033	.06306	.63947
.151	4.966	.08747	.18684	.05197	.02511	-.00203	-.00096	-.00010	.18171	.06776	2.68191
.151	5.930	.10487	.23260	.04684	.02431	-.00209	-.00132	-.00045	.22651	.07062	3.20743
.151	7.972	.14226	.33777	.03422	.02229	-.00090	.00096	-.00323	.32976	.08073	4.08471
.151	10.665	.17851	.46830	.01314	.02101	-.00240	-.00074	-.00074	.45778	.09958	4.59699
.151	11.688	.20256	.51659	.00657	.02375	-.00258	-.00030	-.00077	.50455	.11109	4.54194
.151	12.131	.21836	.53754	.00318	.02372	-.00251	-.00141	-.00133	.52487	.11607	4.52195
.150	13.450	.24360	.60082	-.00722	.02584	-.00291	-.00065	.00028	.58602	.13273	4.41515
.150	14.292	.24593	.65148	-.01446	.02478	-.00295	-.00128	.00137	.63489	.14681	4.32451
.151	15.244	.25448	.69339	-.02272	.02459	-.00273	-.00094	.00170	.68075	.16196	4.20311
.151	16.266	.27993	.76350	-.03200	.02345	-.00333	-.00063	-.00031	.74759	.18508	4.03930
.151	17.752	.30547	.84054	-.04496	.01930	-.00205	-.00171	.00147	.81432	.21349	3.81424
.150	18.684	.31126	.89739	-.05257	.01590	-.00242	-.00160	-.00022	.86693	.23769	3.64740
.150	19.648	.32574	.97458	-.06218	.01089	-.00203	-.00247	.00195	.93780	.27241	3.44266
.150	20.723	.34635	1.03100	-.05767	.00800	-.00172	-.00220	.00336	.98824	.30153	3.27747
.149	22.747	.37511	1.14807	-.06788	.00157	-.00279	-.00311	.00911	1.08502	.38132	2.84540
	GRADIENT	.01794	.04543	-.00136	.00005	-.00034	.00008	-.00047	.04533	.00014	.67516

LA61B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

PAGE 16

(RJT011) (30 JUL 76)

LARC LTPT 228(LA61B)B26C9E43FEM:3N28R5V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

BETA =
 RUDDER =
 RN/L =
 ALLRON =

BDFLAP = .000
 SPDBRK = .000
 ELEVON = 25.000
 ELEVON = .000

PARAMETRIC DATA

RUN NO. 6/ 0 RN/L = 6.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.200	-2.356	-.00021	-.15350	.06214	.02838	-.00126	-.00020	-.00235	-.15081	.06840	-2.20497
.200	-1.260	.00320	-.10139	.06417	.02889	-.00148	-.00018	-.00443	-.09995	.06638	-1.50565
.200	-.238	.00061	-.05307	.06471	.02701	-.00135	-.00066	-.00049	-.05280	.06493	-.81315
.200	.834	.00153	-.00768	.06509	.02916	-.00102	-.00060	-.00180	-.00863	.06497	-.13283
.200	1.791	.00097	.04703	.06567	.02904	-.03157	-.00079	.00054	.04505	.06411	.70261
.200	3.865	.00413	.13967	.06727	.02833	-.00167	-.00058	-.00067	.13546	.06660	2.03414
.199	5.953	.00271	.23917	.04744	.02744	-.00168	-.00011	.00088	.23296	.07199	3.23595
.200	8.088	.00121	.34703	.03373	.02425	-.00179	-.00076	.00147	.33884	.08223	4.12075
.199	10.182	.00162	.45348	.01842	.02265	-.00153	-.00090	.00167	.44308	.09829	4.50773
.199	11.257	.00121	.50434	.00956	.02458	-.00150	-.00020	.00217	.49277	.10783	4.56930
.199	12.284	.01274	.55395	.00175	.02621	-.00182	-.00046	.00262	.54089	.11957	4.52378
.200	13.357	.00342	.60324	-.00693	.02719	-.00224	-.00071	.00298	.59436	.13401	4.43517
.200	14.460	-.01327	.66792	-.01621	.02726	-.00201	-.00061	.00488	.65081	.15109	4.30745
.200	15.407	-.00666	.72019	-.02416	.02691	-.00178	-.00081	.00519	.70072	.16805	4.16981
.200	16.543	-.03204	.78456	-.03424	.02429	-.00166	-.00064	.00152	.76183	.19057	3.99763
.200	17.564	.00397	.84401	-.04327	.02239	-.00120	-.00081	.00501	.81772	.21344	3.83119
.200	18.565	-.00458	.90702	-.05130	.01877	-.00111	-.00214	.00597	.87615	.24015	3.64841
.200	19.683	.02512	.97596	-.06051	.00568	-.0124	-.00327	.00738	.93932	.27174	3.45663
.200	20.735	-.00212	1.04499	-.06519	.00739	-.00074	-.00182	.00663	1.00073	.30808	3.24828
.200	21.854	.00295	1.11520	-.06163	.00271	-.00167	-.00319	.01006	1.05794	.35811	2.95420
.200	22.964	.00420	1.17173	-.05675	.00025	-.00022	-.00127	.00764	1.10101	.40491	2.71916
.200	GRADIENT	.00043	.04715	-.00080	.00004	-.00005	-.00008	.00049	.04605	-.00030	.68699

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 6.000 ELEVON = .000
 AILRON = .000

RUN NO. 27/ 0 RN/L = 6.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CSL	CYN	CY	CL	CD	L/D
.250	-2.380	.00840	-.15854	.06235	.02734	-.00137	-.00056	-.00773	-.15581	.03888	-2.26222
.250	-1.368	.00922	-.11169	.06438	.02754	-.00156	-.00009	-.00827	-.11012	.06702	-1.64298
.250	-.263	.00749	-.06122	.06496	.02736	-.00163	.00014	-.00790	-.06090	.08526	-.93316
.250	.770	.00766	-.01197	.06475	.02686	-.00166	-.00031	-.00923	-.01284	.06458	-.19877
.250	1.942	.00474	.04440	.06267	.02682	-.00163	-.00025	-.00714	.04225	.06414	.65879
.249	3.912	.00631	.13672	.05692	.02544	-.00216	-.00081	-.01185	.13252	.06612	2.00439
.249	6.078	.00194	.24409	.04691	.02488	-.00213	.00043	-.00908	.23775	.07249	3.27966
.249	8.302	-.00120	.35746	.03209	.02230	-.00226	.00040	-.00943	.34908	.08336	4.18740
.250	10.528	-.03154	.47132	.01532	.02137	-.00230	.00042	-.01007	.46058	.10118	4.55191
.250	11.361	-.00629	.51018	.00425	.02088	-.00232	.00054	-.00972	.49844	.10918	4.56527
.249	12.588	-.03646	.57203	-.00081	.02409	-.00285	.00017	-.00895	.55845	.12388	4.50818
.249	13.458	-.03576	.61752	-.00806	.02495	-.00298	-.00039	-.00839	.60244	.13588	4.43348
.250	14.490	-.01213	.67382	-.01562	.02424	-.00300	.00003	-.00933	.64254	.15251	4.30492
.250	15.621	-.03393	.73639	-.02622	.02305	-.00299	.00035	-.01165	.71625	.17304	4.13920
.250	16.759	-.01135	.80204	-.03638	.02137	-.00254	.00003	-.00872	.77847	.19643	3.96315
.250	17.755	-.01738	.86419	-.04477	.01874	-.00226	-.00008	-.00921	.83667	.22091	3.78733
.250	18.611	-.02336	.93343	-.05298	.01568	-.00169	-.00107	-.00672	.90055	.25083	3.59067
.250	20.025	-.01691	1.01352	-.05945	.00784	-.00220	.00002	-.00998	.97267	.29102	3.34231
.249	20.380	-.01519	1.07235	-.05333	.00309	-.00076	.00166	-.01080	1.02036	.33415	3.05356
.251	22.317	-.02011	1.12809	-.04735	-.00084	-.00055	.00098	-.00973	1.06357	.37900	2.80621
.250	23.153	.02015	1.19632	-.04530	-.00583	.00057	.00141	-.01167	1.11832	.42897	2.60698
	GRADIENT	-.00046	.04659	-.00088	-.00030	-.00010	-.00006	-.00051	.04589	-.00047	.68375

LAB18 (LARC LTPT 228) REMOTE ELEVON "ABULATED SOURCE DATA

(RJ011) (30 JUL 76)

LARC LTPT 228(LA618)B26C9E(3F841E28F5V8)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

BETA =
 RUDDER =
 RN/L =
 AILRON =

BDFLAP = .000
 SPDRK = 25.000
 ELEVON = .000

PARAMETRIC DATA

RUN NO. 26/ 0 RV/L = 5.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.300	-2.423	.00663	-1.5888	.06206	.02756	-.00096	-.00018	-.00283	-.15612	.06872	-2.27180
.300	-1.353	.00536	-1.1006	.06404	.02718	-.00104	-.00043	-.00332	-.10851	.06662	-1.62892
.299	-2.38	.00213	-.05835	.06510	.02661	-.00097	-.00020	-.00160	-.05808	.06534	-.88890
.300	.757	.00261	-.01084	.06442	.02584	-.00113	-.00042	-.00312	-.01169	.06427	-.18192
.300	1.840	.00134	.03985	.06271	.02593	-.00126	.00010	-.00358	.03781	.06395	.59122
.299	3.984	-.00142	.14477	.05692	.02622	-.00150	.00024	-.00425	.14047	.06684	2.10165
.300	6.233	-.00358	.25538	.04556	.02394	-.00175	.00019	-.00524	.24842	.07302	3.40913
.300	8.251	-.00705	.35912	.03205	.02196	-.00185	.00050	-.00494	.35080	.08326	4.21330
.301	10.347	-.00741	.46466	.01633	.02074	-.00191	.00037	-.00582	.45418	.09952	4.56361
.299	11.443	-.00497	.51953	.00790	.02228	-.00224	.00048	-.00792	.50763	.11081	4.58105
.299	12.734	-.01703	.58255	-.00212	.02341	-.00247	.00035	-.00703	.56869	.12634	4.50114
.299	13.551	-.01223	.62851	-.00884	.02444	-.00252	.00018	-.00508	.61309	.13868	4.42084
.299	14.669	-.01146	.69035	-.01821	.02386	-.00244	.00026	-.00509	.67245	.15721	4.27747
.300	15.866	-.01534	.75715	-.02826	.02214	-.00237	.00039	-.00502	.73603	.17982	4.09318
.299	17.180	-.02280	.83787	-.03934	.01904	-.00168	-.00042	-.00395	.81211	.20990	3.85912
.300	17.975	-.01150	.89322	-.04522	.01456	-.00200	-.00026	-.00358	.86358	.23264	3.71205
.300	18.538	0.00033	.95501	-.05103	.01001	-.00200	-.00010	-.00760	.91988	.26167	3.51533
.300	20.185	.01132	1.03431	-.04455	.00381	-.00036	.00046	-.00682	.98616	.31507	3.12998
.298	21.179	-.01650	1.09603	-.03662	-.00156	-.00011	.00011	-.00710	1.03595	.35996	2.87793
.297	22.327	-.01625	1.15680	-.03624	-.00681	-.00124	.00138	-.00948	1.09309	.40973	2.66786
.296	23.528	-.02974	1.24661	-.03768	-.01100	.00114	.00255	-.01225	1.15801	.46311	2.50053
	GRADIENT	-.00121	.04739	-.00084	-.00017	-.00008	.00009	-.00024	.04628	-.00034	.68771

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

BETA =
 RUDDER =
 RN/L =
 AILRON =

PARAMETRIC DATA

BOFLAP = .000
 SPDBRK = 25.000
 ELEVON = .000

RUN NO. 74/ 0 RN/L = 7.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.289	-2.418	.00061	-.16027	.06213	.02689	-.00130	-.00068	.00097	-.15751	.06984	-2.28814
.288	-1.391	.00030	-.11256	.06410	.02661	-.00145	-.00036	.00092	-.11097	.06682	-1.66083
.288	-.299	.00033	-.06116	.06509	.02608	-.00144	-.00080	.00044	-.06082	.06540	-.92996
.288	.752	-.00034	-.00997	.06450	.02602	-.00156	-.00055	.00023	-.01081	.06436	-.16801
.288	1.854	-.00171	.04158	.06316	.02577	-.00174	-.00055	.00042	.03950	.06448	.61260
.289	4.007	-.00096	.14389	.05683	.02489	-.00192	-.00042	-.00073	.13957	.06674	2.09118
.287	6.274	.00055	.25870	.04565	.02329	-.00211	-.00049	-.00136	.25216	.07365	3.42389
.288	8.277	-.00655	.36097	.03214	.02127	-.00209	-.00055	-.00106	.35258	.08377	4.20894
.288	10.386	-.00267	.46780	.01621	.02053	-.00208	-.00039	-.00069	.45721	.10028	4.55926
.287	11.607	-.03867	.52635	.00656	.02248	-.00237	-.00042	-.00068	.51425	.11242	4.57419
.269	12.596	-.00532	.57511	-.00155	.02376	-.00269	-.00054	-.00084	.56161	.12390	4.53279
.289	13.716	.00017	.63471	-.01069	.02385	-.00286	-.00059	-.00068	.61914	.14011	4.41885
.288	14.758	.00512	.69411	-.01956	.02296	-.00275	-.00079	-.00103	.67619	.15790	4.26236
.288	15.811	-.00484	.75423	-.02871	.02089	-.00257	-.00079	-.00050	.73351	.17789	4.12348
.288	17.005	-.01582	.82637	-.03920	.01946	-.00251	-.00057	-.00032	.80170	.20419	3.92618
.288	18.073	-.01198	.89036	-.04774	.01516	-.00244	-.00146	-.00068	.86096	.23074	3.73136
.288	19.104	-.00590	.96036	-.05474	.00978	-.00282	-.00084	-.00059	.92539	.26258	3.52424
.290	20.162	-.00844	1.02676	-.04995	.00380	-.00189	-.00026	-.00168	.98106	.30702	3.19546
.288	21.324	-.00434	1.09418	-.05083	.00074	-.00059	.00041	-.00345	1.03775	.35055	2.96038
.289	23.445	.00032	1.21836	-.04676	-.00760	-.00015	-.00038	-.00103	1.13538	.44186	2.57182
	GRADIENT	.00032	.04739	-.00083	-.00030	-.00009	.00002	-.00025	.04629	-.00034	.68733

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 8.000 ELEVON = .000
 ALRON = .000

RUN NO. 18/ 0 RN/L = 7.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.255	-2.430	.00232	-.15832	.06093	.02867	-.00136	-.00082	-.00210	-.15559	.06759	-2.30190
.255	-1.334	.00343	-.10807	.06299	.02711	-.00130	-.00097	-.00165	-.10658	.05549	-1.62736
.256	-.308	.00279	-.05892	.06376	.02674	-.00135	-.00079	-.00177	-.05857	.06408	- .9.478
.257	.917	.00439	-.00327	.06332	.02653	-.00152	-.00051	-.00336	-.00428	.06326	-.06768
.257	1.980	.00373	.04373	.06198	.02648	-.00156	-.00053	-.00205	.04173	.06339	.65841
.257	4.135	.00369	.14888	.05537	.02565	-.00173	-.00059	-.00219	.14550	.06604	2.20332
.256	6.119	.01169	.25028	.04534	.02466	-.00193	-.00032	-.00250	.24402	.07176	3.40064
.258	8.298	.01039	.35600	.03084	.02230	-.00190	-.00046	-.00308	.34783	.09190	4.24690
.258	10.539	.06611	.4592	.0321	.02089	-.00182	-.00051	-.00207	.46530	.10085	4.61352
.257	11.608	.01011	.52324	.0347	.02283	-.00186	-.00021	-.00242	.51141	.11080	4.61571
.257	12.723	-.01152	.57397	-.00347	.02441	-.00251	-.00050	-.00306	.56650	.12435	4.53564
.257	3.777	.01022	.63311	-.01232	.02481	-.00255	-.00074	-.00271	.61783	.13880	4.45115
.256	14.662	.00993	.68278	-.01988	.02385	-.00247	-.00048	-.00247	.66558	.15358	4.33371
.256	16.082	.01258	.73577	-.03245	.02170	-.00222	-.00047	-.00215	.74477	.18102	4.11427
.255	17.190	-.03142	.82518	-.04195	.01872	-.00249	-.00103	-.00262	.80359	.20468	3.92601
.256	17.945	-.03442	.87353	-.04938	.01627	-.00236	-.00176	-.00330	.84534	.22311	3.79150
.255	19.244	-.03637	.95886	-.05872	.01068	-.00216	-.00208	-.00191	.92464	.26058	3.54832
.255	20.618	-.00552	1.0731	-.06123	.00371	-.00402	-.00450	.00594	1.00179	.31148	3.21620
.254	21.870	.01133	1.11695	-.06333	-.00006	-.00320	-.00317	.00365	1.06018	.35723	2.96778
.254	24.251	.00728	1.17876	-.05503	-.00756	-.00001	-.00002	-.00001	1.16117	.46274	2.50933
.254	GRADIENT	.00020	.04639	-.00065	-.00038	-.00007	.00005	-.00007	.04590	-.00025	.69235

LARG LTPT 228 (LARG LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(RJ014) (30 JUL 76)

LARG LTPT 228 (LARG LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

BETA =
 RUDDER =
 RN/L =
 AIRLON =

BDFLAP = .000
 SPDBRK = 25.000
 ELEVON = .000

PARAMETRIC DATA

RUN NO. 73/ 0 RN/L = 7.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.291	-2.447	.00042	-.16124	.06178	.02685	-.00127	-.00086	.00142	-.15845	.06861	-2.30952
.290	-1.420	-.00144	-.11264	.06379	.02612	-.00133	-.00067	.00125	-.11103	.06656	-1.66817
.290	-.353	-.00141	-.06225	.06460	.02608	-.00146	-.00035	.00128	-.06185	.06498	-.95184
.290	.730	-.00103	-.00191	.06416	.02391	-.00179	-.00063	.00066	-.01073	.06402	-.16759
.289	1.808	.00157	.03917	.06290	.02535	-.00171	-.00044	-.00116	.03716	.06411	.57973
.288	3.571	.00122	.12259	.05842	.02493	-.00187	-.00055	-.00034	.11872	.06594	1.80039
.291	4.017	-.00102	.14632	.05546	.02493	-.00183	-.00031	-.00019	.14200	.06658	2.13298
.290	6.165	.00066	.25342	.04575	.02328	-.00197	-.00061	-.00068	.24705	.07270	3.39795
.290	8.324	-.00060	.36366	.03137	.02060	-.00206	-.00055	-.00061	.35528	.08369	4.24518
.290	10.564	.00083	.47658	.01429	.02066	-.00213	-.00042	-.00094	.46587	.10152	4.58870
.289	11.535	-.00506	.52238	.00660	.02200	-.00235	-.00014	-.00198	.51051	.11093	4.60205
.289	12.655	-.00479	.57907	-.00230	.02360	-.00260	-.00042	-.00115	.56550	.12461	4.53810
.283	13.710	-.00634	.63639	-.01137	.02363	-.00282	-.00024	-.00053	.62095	.13978	4.44220
.289	14.826	-.01109	.69741	-.02087	.02264	-.00264	-.00080	-.00038	.67953	.15828	.29322
.290	16.025	-.03220	.75819	-.03132	.02049	-.00246	-.00085	-.00053	.74699	.18196	4.10514
.289	17.020	-.00012	.82616	-.03997	.01817	-.00277	-.00101	-.00026	.80168	.20360	3.93761
.290	18.173	.00343	.89790	-.04942	.01362	-.00280	-.00159	.00143	.86853	.23309	3.72616
.289	19.284	-.00359	.96771	-.05762	.00918	-.00241	-.00217	.00296	.93245	.26519	3.51614
.288	20.374	-.00904	1.03338	-.05565	.00226	-.00388	-.00213	.00245	.99464	.30897	3.21925
.287	21.498	-.01579	1.10014	-.05471	.00032	-.00158	-.00005	-.00139	1.04366	.35226	2.96274
.284	23.626	.00595	1.22643	-.04985	-.00831	-.00108	-.00051	.00245	1.14361	.44584	2.56510
	GRADIENT	.00015	.04737	-.00093	-.00028	-.00010	.00005	-.00033	.04627	-.00024	.69126

LA61B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

PAGE 22

(RJTO15) (30 JUL 76)

LARC LTPT 228(LA61B)B26C9E43F8M16N2R5V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
RUDDER = .000 SPDBRK = 25.000
RN/L = 8.000 ELEVON = .000
AILRON = .000

RUN NO. 17/ 0 RN/L = 8.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.202	-2.411	-.00021	-.15229	.06055	.02631	-.00146	-.00034	-.00082	-.14960	.06690	-2.23618
.202	-1.434	.00048	-.10795	.05220	.02608	-.00145	-.00027	-.00014	-.10636	.06488	-1.63937
.201	-.257	.00127	-.05380	.05316	.02550	-.00155	-.00047	-.00109	-.05352	.06341	-.84405
.201	.836	.00136	-.00250	.05290	.02579	-.00166	-.00046	-.00127	-.00341	.06286	-.05431
.200	2.475	.00097	.07444	.05010	.02532	-.00174	-.00079	-.00062	.07178	.06325	1.13473
.201	3.989	.00320	.14534	.05552	.02487	-.00150	-.00059	-.00114	.14112	.06549	2.15485
.200	6.018	.00337	.24242	.04584	.02412	-.00214	-.00020	-.00268	.23627	.07101	3.32745
.200	8.214	.01049	.35395	.03143	.02078	-.00207	-.00062	-.00136	.34583	.08167	4.23441
.202	9.200	-.00326	.40481	.02452	.01981	-.00224	-.00012	-.00438	.39568	.08892	4.44576
.202	11.343	.00388	.51137	.00922	.02173	-.00218	-.00055	-.00063	.45975	.10873	4.59615
.202	12.448	.01268	.59225	-.00062	.02352	-.00251	-.00064	-.00310	.54624	.11995	4.55390
.202	13.462	.03065	.61180	-.00905	.02426	-.00265	-.00080	-.00263	.59709	.13363	4.46835
.202	14.508	.06834	.66519	-.01813	.02415	-.00269	-.00040	-.00376	.64852	.14909	4.34974
.202	15.537	.00232	.72413	-.02890	.02251	-.00246	-.00074	-.00173	.70487	.16805	4.19444
.201	17.181	.01514	.81901	-.04139	.01850	-.00271	-.00074	-.00496	.79469	.20238	3.92670
.202	17.821	.03227	.85779	-.04702	.01649	-.00246	-.00124	-.00032	.83101	.21776	3.81613
.202	18.730	.00253	.91602	-.05485	.01252	-.00258	-.00183	-.00163	.88512	.24220	3.65455
.202	19.817	-.02295	.98072	-.05264	.00789	-.00225	-.00291	.00409	.94388	.27355	3.45049
.202	20.881	-.00367	1.04942	-.05792	.00248	-.00311	-.02297	.00257	1.00471	.31058	3.23496
.201	21.916	.00778	1.11970	-.05572	-.00170	-.00378	-.00348	.00499	1.05534	.35267	2.99243
	GRADIENT	.00042	.04653	-.00079	-.00022	-.00002	-.00006	-.00007	.04550	-.00022	.69420

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 10.000 ELEVON = .000
 AILRON = .000

RUN NO. 13/ 0 RN/L = 9.84 GRADIENT INTERVAL = -5.00/ 5.00

MAC4	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.150	-2.341	.00378	-.15555	.05169	.02787	-.00105	-.00097	-.00198	-.15290	.06799	-2.24891
.150	-1.337	.00277	-.10827	.05346	.02768	-.00111	-.00093	-.00179	-.10678	.06595	-1.61918
.150	-.244	.00212	-.06020	.05426	.02763	-.00120	-.00036	-.00214	-.05988	.06455	-.92766
.150	.717	.00244	-.01243	.05394	.02775	-.0135	-.00057	-.00222	-.01323	.06378	-.20746
.150	1.357	.00316	.01713	.05332	.02717	-.00145	-.00051	-.00292	.01563	.06371	.24532
.149	3.923	.00456	.13856	.05683	.02674	-.00148	-.00054	-.00171	.13435	.06618	2.03003
.150	6.586	.00001	.26583	.04351	.02515	-.00155	-.00054	-.00143	.26018	.07384	3.52347
.149	7.704	.00005	.32487	.03501	.02392	-.00156	-.00027	-.00056	.31711	.07924	4.00189
.149	10.118	-.00235	.44670	.01815	.02303	-.00151	-.00017	-.00013	.43657	.09635	4.53124
.149	11.161	.01348	.43515	.01010	.02443	-.01139	-.00092	.00006	.48384	.10575	4.57536
.149	12.297	-.00260	.55365	.00391	.02619	-.00159	-.00062	.00027	.53802	.11821	4.55128
.149	13.248	.00368	.59895	-.00686	.02658	-.00181	-.00064	-.00026	.58458	.13058	4.47667
.149	14.231	-.01542	.65053	.01512	.02612	-.00177	-.00051	.00174	.63431	.14516	4.36986
.149	15.915	-.00415	.74456	-.02971	.02440	-.00145	-.00051	.00097	.72427	.17563	4.12383
.149	16.492	.00311	.78087	-.03483	.02220	-.00142	-.00070	.00135	.75864	.18823	4.03036
.149	17.513	-.00538	.84047	-.04344	.01888	-.00151	-.00123	.00248	.81458	.21149	3.85169
.149	18.547	-.00001	.90514	-.05212	.01433	-.00191	-.00110	-.00787	.87566	.23881	3.66682
.148	20.242	-.01306	1.01833	-.05246	.00435	-.00089	-.00105	.00355	.97705	.29373	3.32640
.149	20.694	-.01030	1.04759	-.06418	.00185	-.00089	-.00091	.00367	1.00306	.31029	3.23260
.148	21.742	-.01450	1.11238	-.06495	-.00356	-.00138	-.00033	.00398	1.05731	.35172	3.00609
.148	22.914	.02518	1.18542	-.06241	-.01047	-.00034	-.00074	.00390	1.11618	.40405	2.76248
	GRADIENT	.00029	.04697	-.00080	-.00018	-.00008	.00007	-.00001	.04588	-.00028	.68770

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 8.000 ELEVON = .000
 ALLRON = .000

RUN NO. 9/ 0 RN/L = 8.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.151	-2.338	-.00334	-.15159	.06196	.02963	-.00143	-.00061	-.00530	-.14894	.06809	-2.18731
.150	-1.283	-.00053	-.10362	.06395	.02884	-.00144	-.00071	-.00518	-.10216	.06625	-1.54205
.150	-.207	.00051	-.05317	.04459	.02958	-.00140	-.00043	-.00159	-.05293	.06478	-.81714
.150	.942	.00586	.00131	.06388	.02995	-.00149	-.00042	-.00127	.00026	.06389	.00409
.150	1.829	.01016	.04315	.06269	.02953	-.00146	-.00108	-.00083	.04113	.06404	.64225
.150	3.992	.02232	.14533	.05652	.03049	-.00156	-.00130	-.00125	.14104	.06650	2.12101
.150	6.129	.02715	.25547	.04546	.02899	-.00154	-.00058	-.00011	.24905	.07347	3.38986
.149	8.237	.03984	.35394	.03235	.02627	-.00181	-.00058	-.00116	.34565	.08272	4.17839
.149	10.427	.05223	.46442	.01805	.02478	-.00142	-.00141	-.00070	.45385	.09983	4.54619
.149	11.334	.05536	.50918	.00893	.02756	-.00134	-.00141	-.00020	.49749	.10882	4.57170
.149	12.372	.05453	.55929	.00080	.02794	-.00189	-.00128	.00008	.54613	.12062	4.52780
.149	13.325	.06429	.60696	-.00744	.02934	-.00191	-.00146	.00094	.59233	.13265	4.46527
.151	14.356	.04618	.66162	-.01613	.02962	-.00201	-.00085	.00141	.64495	.14843	4.34532
.150	15.529	.06837	.72506	-.02635	.02821	-.00194	-.00086	-.00083	.705F4	.16873	4.18204
.150	16.727	.07576	.79594	-.03717	.02510	-.00146	-.00146	.00354	.77296	.19348	3.99505
.149	17.556	.06289	.84370	-.04449	.02232	-.00166	-.00161	.00414	.81783	.21208	3.85621
.149	18.591	.09505	.90639	-.05373	.01779	-.00149	-.00220	.00677	.87623	.23803	3.68111
.149	19.650	.07786	.97318	-.06196	.01231	-.0149	-.00305	.00737	.93734	.26891	3.48572
.148	21.085	.08295	1.06494	-.07305	.00576	-.00169	-.00214	.00773	1.01864	.31776	3.20635
.148	21.986	.08639	1.12156	-.06990	.00189	-.00231	-.00359	.00891	1.06616	.35508	3.00257
.151	22.874	.11106	1.16582	-.06872	-.00211	-.00125	-.00245	.00733	1.10085	.38986	2.82373
	GRADIENT	.00404	.04700	-.00087	.00017	-.00002	-.00011	.00074	.04590	-.00028	.68670

LAS1B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

LARC LTPT 228(LAS1B)B26C9E43F8M16N28R5V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XC
LREF = 474.8000 INCHES YMRP = 0000 IN. YC
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 BOFLAP = .000
RUDDER = .000 SPDBRK = 25.000
RN/L = 10.000 ELEVON = .000
AILRON = .000

RUN NO. 8/ 0 RN/L = 10.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.199	-2.423	.00368	-.16105	.06162	.02908	-.00126	-.00031	-.00146	-.15830	.06837	-2.31523
.200	-1.369	.00449	-.10822	.06382	.02870	-.00142	.00010	-.00328	-.10666	.06639	-1.80664
.200	-.247	.00200	-.05734	.06456	.02828	-.00135	-.00054	-.00119	-.05706	.06480	-.88053
.199	.867	.00103	-.00517	.06417	.02757	-.00141	-.00060	-.00108	-.00614	.06409	-.09581
.199	1.829	-.00056	.03854	.06276	.02797	-.00153	-.00029	-.00087	.03662	.06396	.57252
.199	4.061	-.00414	1.4680	.05623	.02688	-.00172	-.00039	-.00072	.14245	.06649	2.14256
.200	6.106	-.00509	.24901	.04615	.02520	-.00171	-.00054	-.00046	.24269	.07237	3.35323
.200	8.333	-.00612	.36091	.03127	.02262	-.00162	-.00070	-.00027	.35257	.08324	4.23537
.199	10.537	-.00885	4.7018	.01455	.02337	-.00160	-.00032	.00023	.45959	.10028	4.58285
.200	11.794	-.01219	.52990	.00457	.02563	-.00158	-.00070	.00089	.51778	.11278	4.59106
.200	12.576	-.03481	.57054	-.00187	.02629	-.00173	-.00070	.00160	.55726	.12240	4.55287
.200	13.711	-.01956	.63072	-.01142	.02692	-.00195	-.00069	.00201	.61545	.13841	4.44667
.200	14.844	-.02544	.69003	-.02032	.02613	-.00180	-.00031	.00176	.67237	.15655	4.29487
.200	15.858	-.00567	.74947	-.03006	.02513	-.00155	-.00075	.00223	.72916	.17588	4.14571
.199	17.140	-.00800	.82506	-.04089	.01968	-.00165	-.00039	.00157	.80142	.20437	3.92143
.200	18.082	-.01300	.88476	-.04869	.01626	-.00158	-.00095	.00358	.85618	.22832	3.74997
.199	19.218	-.02080	.96111	-.05703	.01065	-.00126	-.00160	.00528	.92633	.26251	3.52879
.199	20.294	.00105	1.03173	-.06248	.00400	-.00079	-.00069	.00346	.98935	.29924	3.30621
.198	21.269	-.02109	1.09552	-.06425	-.00088	-.00156	-.00051	.00354	1.04421	.33753	3.09366
.198	22.398	.00935	1.15063	-.06193	-.00562	-.00153	-.00005	.00207	1.09667	.38499	2.84858
.201	23.512	.00189	1.22924	-.05999	-.01274	-.00051	-.00002	.00290	1.15111	.43539	2.64385
	GRADIENT	-.00130	.04717	-.00084	-.00033	-.00006	-.00004	.00025	.04607	-.00031	.68772

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OF POOR QUALITY

L618 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(RJT018) (30 JUL 76)

LARC LTPT 228(L618)B26C9E43F8M16N2BR5V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BOFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 10.000 ELEVON = .000
 AIRLON = .000

RUN NO. 7/ 0 RN/L = 9.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.249	-2.465	.00586	-.16745	.06141	.02914	-.00154	-.00027	-.00096	-.16465	.05856	-2.40175
.249	-1.401	.00408	-.11682	.06348	.02774	-.00165	-.00044	-.00156	-.11524	.06632	-1.73766
.249	-.324	.00153	-.06517	.06438	.02841	-.00144	-.00103	-.00190	-.06480	.06475	-1.00087
.248	.803	.00065	-.01450	.06418	.02876	-.00184	-.00029	-.00117	-.01540	.06397	-.24067
.249	1.902	-.00127	.03851	.06255	.02801	-.00177	-.00051	-.00070	.03642	.06379	.57087
.247	4.244	-.00467	.14142	.05636	.02766	-.00191	-.00065	-.00040	.13709	.06619	2.07103
.247	6.235	-.00629	.24995	.04520	.02585	-.00211	-.00033	-.00154	.24356	.07208	3.37904
.247	8.428	-.01069	.36011	.03047	.02326	-.00194	-.00074	-.00124	.35175	.08292	4.24210
.247	10.567	-.01648	.46785	.01404	.02352	-.00200	-.00040	-.00098	.45734	.09660	4.59172
.245	11.779	-.02389	.52612	.00475	.02573	-.00193	-.00066	-.00163	.51407	.11205	4.58788
.246	12.767	-.04183	.57670	-.00342	.02631	-.00221	-.00067	-.00219	.56320	.12411	4.53801
.245	13.882	-.01409	.63579	-.01269	.02567	-.00227	-.00092	-.00100	.62026	.14022	4.42333
.245	15.124	-.03035	.70535	-.02340	.02523	-.00208	-.00050	-.00180	.68702	.16145	4.25544
.245	16.037	-.03451	.75709	-.03136	.02274	-.00195	-.00053	-.00359	.73630	.17900	4.11351
.244	17.174	-.02771	.82518	-.04113	.01971	-.00193	-.00049	-.00276	.80053	.20437	3.91715
.244	18.270	-.02502	.89675	.05045	.01560	-.00171	-.00101	-.00402	.86736	.23322	3.71899
.244	19.395	-.02991	.96882	-.05839	.00894	-.00104	-.00203	-.00735	.93323	.26665	3.49982
.243	20.476	-.03340	1.03901	-.06326	.00336	-.00167	-.00100	-.00409	.99550	.30420	3.27253
.242	21.798	-.03645	1.11540	-.06277	-.00109	-.00248	-.00106	-.00511	1.05895	.35591	2.97531
.241	22.650	-.03747	1.15537	-.06162	-.00409	-.00179	-.00119	-.00515	1.09922	.39192	2.80472
.240	23.755	.04761	1.23678	-.05893	-.00872	-.00141	-.00101	-.00540	1.15570	.44436	2.60084
	GRADIENT	-.00151	.04733	-.00078	-.00015	-.00006	-.00003	-.00005	.04623	-.00038	.69085

L618 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

LARC LTPT 228(LAS18)B26C9E43F8M16N28R5V8H

(RJT019) (30 JUL 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6300 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

BETA =
 RUDDER =
 RN/L =
 AILRON =

PARAMETRIC DATA

.000 BDFLAP = .000
 .000 SPOBRK = 25.000
 10.000 ELEVON = .000

RUN NO. 38/ 0 RN/L = 9.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.241	-2.411	.00309	-1.5514	.06096	.02480	-.00159	-.00048	-.00163	-.15243	.06743	-2.26071
.241	-1.394	.00329	-1.10632	.06304	.02468	-.00164	-.00025	-.00247	-.10475	.06560	-1.59674
.241	-.262	.00321	-.05433	.06380	.02430	-.00165	-.00054	-.00201	-.05404	.06405	-.84374
.241	.764	.00400	-.00640	.06345	.02430	-.00175	-.00023	-.00243	-.00724	.06336	-.11429
.241	1.932	.00606	.04942	.06194	.02392	-.00193	-.00045	-.00359	.04731	.06358	.74412
.241	4.000	.00341	1.4874	.05593	.02293	-.00214	-.00009	-.00411	.14448	.06617	2.18346
.241	6.201	-.01000	.25679	.04486	.02167	-.00213	-.00025	-.00216	.25044	.07234	3.46217
.240	8.350	-.00331	.36730	.03054	.01907	-.00228	-.00030	-.00292	.35898	.08356	4.29625
.240	10.575	-.00518	.47581	.01364	.02002	-.00237	-.00008	-.00316	.46522	.10073	4.61832
.240	11.973	-.02129	.54376	.00266	.02210	-.00258	-.00047	-.00266	.53138	.11540	4.60447
.240	12.660	-.00948	.57804	-.00299	.02252	-.00276	-.00031	-.00266	.56464	.12378	4.56179
.239	13.781	-.00566	.63766	-.01247	.02282	-.00296	-.00028	-.00330	.62227	.13379	4.5139
.239	14.860	-.01590	.69575	-.02178	.02181	-.00292	-.00035	-.00289	.67904	.15764	4.30762
.238	15.975	-.01269	.76055	-.03117	.01977	-.00262	-.00048	-.00275	.73976	.17935	4.12475
.238	17.061	-.01212	.82403	-.04071	.01724	-.00279	-.00048	-.00211	.79971	.20284	3.94251
.238	18.159	-.02051	.89225	-.04964	.01225	-.00273	-.00161	-.00112	.86328	.23090	3.73884
.237	19.254	-.02644	.96366	-.05757	.00672	-.00229	-.00256	-.0012	.92874	.26343	3.52552
.236	20.381	-.02690	1.03692	-.06314	.00090	-.00310	-.00201	-.00102	.99400	.30194	3.29206
.236	21.528	-.02331	1.10432	-.06331	-.00341	-.00391	-.00211	-.00210	1.05051	.34634	3.03320
.234	23.612	-.02034	1.22867	-.05967	-.01364	-.00101	-.00138	-.00040	1.14971	.43746	2.62814
	GRADIENT	.00020	.04729	-.00079	-.00028	-.00009	.00004	-.00038	.04620	-.00022	.69690

LA61B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8M

(RJT020) (30 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = 0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

BETA =
 RUDDER =
 RN/L =
 AILRON =

BDFLAP = .000
 SPDRK = .000
 ELEVON = 25.000
 .000

PARAMETRIC DATA

RUN NO. 14/ 0 RN/L = 11.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.166	-2.648	.00331	-.16932	.06059	.02852	-.00112	-.00034	-.00233	-.16634	.06834	-2.43380
.166	-1.577	.00408	-.12020	.06313	.02816	-.00115	-.00035	-.00218	-.11842	.06641	-1.78305
.166	-.527	.00343	-.07063	.06411	.02778	-.00124	-.00024	-.00288	-.07003	.06475	-1.08157
.166	.641	.00157	-.01551	.06397	.02743	-.00124	-.00028	-.00164	-.01622	.06379	-.25431
.166	1.746	.00053	.03654	.06252	.02691	-.00124	-.00052	-.00081	.03462	.06361	.54427
.166	4.325	-.00169	.15737	.05502	.02588	-.00150	-.00025	-.00299	.15277	.06674	2.28925
.166	6.380	-.00039	.25958	.04444	.02505	-.00162	-.00026	-.00178	.25303	.07301	3.46579
.166	8.086	-.00248	.34589	.03299	.02305	-.00151	-.00016	-.00048	.33781	.08131	4.15463
.165	10.364	-.00038	.45854	.01590	.02345	-.00145	-.00058	.00007	.44819	.09813	4.56713
.165	11.170	-.00578	.49625	.00958	.02446	-.00138	-.00062	.00021	.48499	.10554	4.59551
.165	12.206	-.01569	.54763	.00124	.02590	-.00157	-.00064	.00022	.53499	.11699	4.57292
.166	13.414	-.00982	.60888	-.00883	.02654	-.00174	-.00077	.00109	.59432	.13267	4.47981
.166	14.507	-.01202	.65726	-.01790	.02647	-.00176	-.00005	.00206	.65047	.14982	4.34168
.165	15.490	-.01912	.72280	-.02626	.02476	-.00149	-.00036	.00164	.70356	.16773	4.19459
.166	16.719	-.01025	.79735	-.03623	.02125	-.00141	-.00070	.00181	.77406	.19468	3.97611
.167	17.721	-.00078	.85886	-.04459	.01721	-.00163	-.00087	.00266	.83168	.21896	3.79833
.167	18.058	-.05187	.93358	-.05295	.01075	-.00120	-.00120	.00276	.90058	.25165	3.57872
.167	19.944	-.03683	1.00586	-.05830	.00449	-.00059	-.00036	.00255	.96542	.28820	3.34868
.167	21.372	-.01305	1.10279	-.06018	-.00478	-.00095	-.00002	.00188	1.04889	.34585	3.03279
.167	22.166	-.02080	1.15195	-.05842	-.00972	-.00030	.00016	.00248	1.08886	.38050	2.86161
.167	23.344	-.03101	1.23091	-.05637	-.01786	-.00117	.00005	.00142	1.15249	.43599	2.64338
	GRADIENT	-.00083	.04693	-.00084	-.00038	-.00005	.00000	-.00000	.04584	-.00025	.68378

L61B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

LARC LTPT 228(L61B)B26C9E43F8M16N28R5V8M

(RJ021) (30 JUL 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
RUDDER = .000 SPDRBK = 25.000
RN/L = 12.000 ELEVON = .000
AILRON = .000

RUN NO. 12/ 0 RN/L = 12.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.200	-2.413	-.00417	-.15898	.06078	.02865	-.00128	-.00071	-.00157	-.15628	.06742	-2.31782
.200	-.345	-.00061	-.06266	.06360	.02754	-.00112	-.00101	-.00125	-.06227	.06398	-.97340
.200	2.214	.00083	.05853	.06118	.02718	-.00148	-.00076	-.00024	.05612	.06340	.88516
.199	4.167	.00197	.15091	.05532	.02760	-.00174	-.00023	-.00190	.14649	.06614	2.21489
.199	6.119	.00238	.24969	.04550	.02555	-.00177	-.00031	-.00050	.24341	.07186	3.38744
.199	8.569	.00612	.37131	.02882	.02297	-.00183	-.00053	-.00017	.36287	.08382	4.32897
.199	10.985	.00016	.48961	.01048	.02471	-.00170	-.00074	.00099	.47864	.10359	4.62053
.200	11.561	-.00443	.51740	.00587	.02531	-.00170	-.00042	.00162	.50573	.10944	4.62103
.200	12.737	.00364	.57575	-.00373	.02664	-.00182	-.00044	.00117	.56240	.12330	4.56121
.200	13.688	-.01190	.62581	-.01142	.02662	-.00201	-.00079	.00248	.61074	.13699	4.45840
.200	14.711	-.01428	.68014	-.01977	.02570	-.00176	-.00061	.00200	.66287	.15359	4.31579
.199	15.849	-.00612	.74721	-.02927	.02400	-.00161	-.00071	.00240	.72680	.17591	4.13167
.199	16.980	-.01416	.81537	-.03842	.01971	-.00179	-.00091	.00268	.79105	.20137	3.92831
.198	18.565	-.01536	.91904	-.04994	.01127	-.00134	-.00135	.00314	.88712	.24527	3.61694
.198	19.264	-.00941	.96502	-.05353	.00736	-.00142	-.00090	.00235	.92865	.25785	3.46703
.199	20.592	-.01700	1.05460	-.05632	-.00170	-.00076	-.00089	.00313	1.00710	.31800	3.16696
.200	21.621	-.01649	1.13610	-.05435	-.00825	-.00019	.00017	.00149	1.07490	.37184	2.99073
.200	22.280	-.01385	1.16650	-.05352	-.01204	-.00028	-.00006	.00191	1.09970	.39273	2.80014
.199	24.073	-.00824	1.28518	-.05267	-.02090	-.00188	-.00015	.00246	1.19489	.47613	2.50958
	GRADIENT	.00089	.04713	-.00083	-.00016	-.00008	.00008	-.00013	.04604	-.00021	.69370

LAS1B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(RJT0221) (30 JUL 76)

LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

BETA =
 RUDDER =
 RN/L =
 ALLRON =

PARAMETRIC DATA

.000 BDFLAP = .000
 .000 SPORRK = 25.000
 12.000 ELEVON = .000
 .000

RUN NO. 15/ 0 RN/L = 12.10 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.185	-2.686	.00415	.7415	.06038	.02834	.00100	.00032	.00189	.17113	.06848	-2.49912
.184	-1.632	.00399	.12439	.06277	.02786	.00110	.00067	.00235	.12255	.06629	-1.84868
.184	-1.526	.00272	.0731	.06405	.02746	.00116	.00012	.00160	.07252	.06471	-1.12058
.184	.860	.00251	.0086	.06371	.02571	.00116	.00055	.00118	.00917	.06358	-1.14417
.184	2.227	.00149	.05727	.06144	.02653	.00131	.00039	.00182	.05484	.06362	.86200
.184	3.779	.00229	.13311	.05699	.02504	.00145	.00053	.00163	.12906	.06564	1.96611
.184	5.869	.01615	.23454	.04727	.02501	.00144	.00057	.00200	.22848	.07101	3.21771
.183	8.070	.00127	.34672	.03286	.02306	.00151	.00032	.00124	.33867	.08121	4.17019
.184	10.749	.01534	.47690	.01248	.02383	.00149	.00034	.00088	.46620	.10120	4.60663
.184	11.497	.00187	.51447	.00652	.02483	.00149	.00025	.00039	.50283	.10903	4.61196
.184	12.419	.00082	.56006	.00132	.02634	.00163	.00013	.00002	.54724	.11915	4.59280
.184	13.547	.00964	.62043	.01010	.02642	.00185	.00033	.00058	.60554	.13551	4.46847
.184	14.590	.00566	.67608	.01872	.02552	.00158	.00039	.00041	.6900	.15219	4.33017
.184	15.700	.01461	.73792	.02779	.02349	.00141	.00058	.00169	.71791	.17293	4.15136
.183	16.983	.00531	.81324	.03848	.02012	.00151	.00066	.00131	.78902	.20074	3.93061
.183	18.190	.02071	.89513	.04757	.01331	.00127	.00119	.00323	.86524	.23423	3.69393
.185	19.033	.02166	.94879	.05206	.00829	.00148	.00121	.00338	.91390	.26019	3.51243
.185	20.152	.01009	1.02864	.05597	.00027	.00065	.00084	.00089	.98495	.30183	3.26324
.184	21.253	.01284	1.10166	.05566	.00692	.00041	.00062	.00152	1.04691	.34747	3.01300
.184	22.442	.01021	1.18130	.05339	.01476	.00099	.00004	.00165	1.11222	.40160	2.76946
.185	23.693	.01707	1.25947	.05169	.02093	.00237	.00059	.00156	1.17408	.45878	2.55915
	GRADIENT	.00036	.04742	.00354	.00037	.00006	.00002	.00007	.04732	.00047	.69544

(RJT023) (30 JUL 78)

PARAMETRIC DATA

BETA = .000
RUDDER = .000
RN'L = 12.500
AILRON = .000

SREF = 2690.0000 SO.FT.
LREF = 474.8000 INCHES
BREF = 936.6800 INCHES
SCALE = .0150

REFERENCE DATA

RUN NO. 29/ 0 RN/L = 12.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.200	-2.521	-.00162	-.15685	.06042	.02661	-.00081	-.00064	.00097	-.15405	.06726	-2.29034
.199	-1.455	-.00234	-.10717	.06252	.02664	-.00091	-.00049	.00045	-.10555	.06522	-1.61845
.199	-.218	.00139	-.04938	.06338	.02596	-.00098	-.00041	.00071	-.04914	.06357	-.77299
.199	.705	-.00009	-.00609	.06307	.02581	-.00099	-.00063	.00061	-.00687	.06299	-.10902
.200	1.767	.00204	.04254	.06166	.02537	-.00091	-.00050	.00025	.04062	.06295	.64525
.200	4.012	.00322	.15289	.05516	.02501	-.00126	-.00038	-.00066	.14866	.06572	2.26181
.199	6.113	.00994	.25571	.04452	.02365	-.00144	-.00017	-.00155	.24952	.07149	3.49001
.200	8.325	.00889	.36633	.02966	.02105	-.00155	-.00025	.00155	.35818	.08239	4.34750
.200	10.630	.00993	.48093	.01185	.02237	-.00160	-.00008	-.00120	.47049	.10036	4.68812
.200	11.600	.02253	.52810	.00434	.02387	-.00176	-.00016	-.00212	.51646	.11035	4.68040
.199	12.705	-.00222	.58258	-.00461	.02476	-.00195	-.00043	-.00081	.56933	.12364	4.60478
.200	14.154	.01140	.65962	-.01657	.02441	-.00202	-.00037	-.00170	.64365	.14522	4.43211
.200	14.921	.00096	.70352	-.02303	.02355	-.00198	-.00052	-.00179	.68573	.15889	4.31563
.200	15.948	.01672	.76035	-.03148	.02153	-.00180	-.00054	-.00127	.74031	.17882	4.14001
.199	17.214	.03038	.84232	-.04168	.01679	-.00204	-.00109	-.00079	.81692	.20947	3.90000
.201	18.326	.01826	.91669	-.04949	.01028	-.00166	-.00185	.00174	.88576	.24125	3.67159
.200	19.380	.02405	.98761	-.05470	.00366	-.00162	-.00166	.00032	.94981	.27611	3.43995
.200	20.807	.01305	1.08495	-.05655	-.00632	-.00178	-.00193	.00075	1.03419	.33249	3.11042
.201	21.644	.00945	1.13943	-.05475	-.01191	-.00109	-.00143	.00075	1.07929	.36937	2.92199
.200	22.853	.02368	1.21983	-.05287	-.01876	-.00087	-.00169	.00138	1.14461	.42502	2.69306
.200	23.969	.01054	1.28790	-.05256	-.02184	-.00258	-.00171	-.00128	1.19819	.47517	2.52158
	GRADIENT	.00083	.04728	-.00081	-.00027	-.00006	.00003	-.00019	.04620	-.00026	.70003

LAS1B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

PAGE 32

LARC LTPT 228(LAS1B)B26C9E43F8M16N28R5V8M

(RJ024) (30 JUL 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

BETA =
 RUDDER =
 RN/L =
 AILRON =

PARAMETRIC DATA

BOFLAP = .000
 SPDBRK = 25.000
 ELEVON = .000

RUN NO. 61/ 0 RN/L = 13.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.211	-2.532	.00132	-.16220	.06015	.02703	-.00182	-.00073	-.00075	-.15938	.06726	-2.36963
.211	-1.460	.00082	-.11223	.06228	.02694	-.00184	-.00059	-.00060	-.11060	.06512	-1.69840
.210	-.286	.00646	-.05659	.06336	.02642	-.00202	-.00058	-.00362	-.05627	.06364	-.88423
.211	.808	.00170	-.00568	.06291	.02601	-.00192	-.00067	-.00036	-.00657	.06283	-.10455
.209	1.882	.00389	.04568	.06150	.02584	-.00205	-.00051	-.00062	-.04364	.06297	.69294
.208	4.100	.01020	.15510	.05506	.02513	-.00229	-.00047	-.00251	.15077	.06601	2.28401
.208	6.259	.00515	.25864	.04403	.02371	-.00244	-.00055	-.00224	.25249	.07198	3.50769
.208	8.441	.00961	.36486	.02900	.02251	-.00251	-.00064	-.00164	.35665	.08225	4.33636
.208	10.624	.00118	.47563	.01251	.02298	-.00268	-.00055	-.00183	.46517	.09999	4.65210
.207	11.696	.00985	.52799	.00427	.02412	-.00272	-.00084	-.00237	.51616	.11121	4.64125
.207	12.836	.01912	.58150	-.00492	.02555	-.00315	-.00041	-.00216	.56806	.12439	4.56684
.207	13.948	.01975	.64433	-.01382	.02497	-.00308	-.00061	-.00164	.62867	.14190	4.43041
.207	15.109	.02086	.70933	-.02327	.02364	-.00301	-.00109	-.00122	.69088	.16242	4.25362
.207	16.363	.01578	.78486	-.03287	.01983	-.00307	-.00138	-.00002	.76233	.18957	4.02124
.206	17.569	.01394	.86472	-.04088	.01285	-.00277	-.00239	.00083	.83673	.22204	3.76835
.206	18.672	.02046	.94107	-.04614	.00553	-.00280	-.01336	.00304	.90631	.25759	3.51854
.206	19.500	.00824	.99948	-.04805	-.00020	-.00257	-.00308	.00212	.95819	.28833	3.32322
.205	20.819	.02369	1.08845	-.04684	-.00933	-.00227	-.00309	.00231	1.03404	.34336	3.01413
.205	21.855	-.00171	1.15854	-.04485	-.01486	-.00035	-.00328	.00317	1.09197	.38965	2.80240
.205	24.011	.01140	1.29241	-.04416	-.01710	-.00053	-.00386	.00413	1.18941	.48150	2.47023
.203	GRADIENT	.00119	.04776	-.00077	-.00030	-.00007	.00003	-.00015	.04668	-.00021	.70641

LA618 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(RJT025) (05 AUG 76)

LARC LTPT 228(LA618)B26C9E4JF3M16N28R5V8W

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XTRP = 1076.7000 IN. XO
 LREF = 474.6000 INCHES YTRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZTRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = 2.000 BDFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 12.500 ELEVON = .000
 ALLRON = .000

RUN NO. 30/ 0 RN/L = 12.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	C'V	CL	CD	L/D
.200	-.079	1.78567	-.06026	.06315	.02605	-.03180	.00152	-.02910	-.06018	.06323	-.95164
.200	1.850	1.81567	.03841	.06224	.02519	-.00290	.00187	-.03303	.03638	.06345	.57339
.200	3.968	1.82544	.14587	.05603	.02423	-.00383	.00206	-.03558	.14162	.06604	2.14435
.200	6.202	1.99054	.25489	.04492	.02223	-.00453	.00232	-.03687	.24855	.07219	3.44288
.200	8.352	2.00952	.36545	.03003	.02001	-.00540	.00253	-.03789	.35721	.08279	4.31472
.200	10.571	2.02103	.47630	.01340	.02106	-.00708	.00290	-.03768	.46576	.10055	4.63190
.200	11.755	2.00330	.53469	.00491	.02210	-.00758	.00281	-.03862	.52266	.11285	4.63107
.200	12.777	2.00588	.58563	-.00448	.02274	-.00782	.00265	-.03873	.57310	.12537	4.57120
.199	13.813	1.99908	.64349	-.01335	.02222	-.00768	.00281	-.03759	.62807	.14067	4.46481
.199	15.019	2.00377	.71083	-.02323	.02097	-.00769	.00264	-.03940	.69260	.16167	4.28412
.199	16.038	1.99648	.77020	-.03174	.01868	-.00748	.00224	-.03697	.74899	.18229	4.10879
.198	17.146	2.03844	.84029	-.04052	.01423	-.00754	.00124	-.03719	.81488	.20301	3.89879
.198	18.338	1.99868	.91717	-.04867	.00886	-.00775	-.00020	-.03246	.88590	.24237	3.65523
.198	19.441	1.99990	.99187	-.05516	.00246	-.00785	-.00149	-.03002	.95368	.27812	3.42898
.198	20.508	1.95109	1.06337	-.05809	-.00472	-.00847	-.00200	-.02946	1.01633	.31814	3.19463
.197	21.512	2.01117	1.13507	-.05781	-.01219	-.00832	-.00180	-.03198	1.07813	.36281	2.97159
	GRADIENT	.03467	.05068	-.00177	-.00045	-.00050	.00013	-.00159	.04961	.00070	.76077

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8000 INCHES
BREF = 936.6800 INCHES
SCALE = .0150

XMRP = 1076.7000 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

BETA =
RUDDER =
RN/L =
AILRON =

4.000 BOFLAP = .030
12.500 SPDBRK = 25.000
.000 ELEVON = 10.000

PARAMETRIC DATA

RUN NO. 47/ 0 RN/L = 12.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.200	.192	3.90732	.1410C	.07496	-.06313	-.00593	.00665	-.07091	.14075	.07543	1.86593
.199	2.465	3.93571	.2421C	.07179	-.06455	-.00744	.00669	-.07336	.23907	.08130	2.94059
.199	4.366	3.99371	.34571	.06435	-.06574	-.00846	.00666	-.07501	.33977	.09060	3.75007
.199	6.548	4.01337	.45357	.05211	-.06882	-.00938	.00682	-.07580	.44497	.10352	4.29823
.201	8.733	4.03685	.56620	.03666	-.07101	-.01090	.00728	-.07601	.55407	.12221	4.53393
.202	10.927	4.04297	.67508	.01804	-.07214	-.01309	.00768	-.07711	.65942	.14568	4.52653
.202	12.019	4.03041	.73429	.00836	-.07253	-.0140E	.00764	-.07718	.71625	.16104	4.44767
.203	13.141	4.05852	.79358	-.00119	-.07362	-.01484	.00792	-.07738	.77307	.17926	4.31250
.202	14.230	4.00273	.85682	-.01031	-.07471	-.01564	.00773	-.07687	.83306	.20062	4.15243
.201	15.389	4.04839	.92146	-.01906	-.07774	-.01617	.00734	-.07934	.89348	.22615	3.95081
.200	16.436	4.08593	.98702	-.02730	-.08120	-.01563	.00644	-.07761	.95441	.25309	3.77105
.200	17.538	4.07442	1.06284	-.03484	-.08694	-.01446	.00457	-.07396	1.02393	.28706	3.56683
.200	18.676	4.01280	1.13333	-.04085	-.09287	-.01444	.00256	-.07013	1.08673	.32421	3.35190
.199	19.753	4.05133	1.20884	-.04448	-.09868	-.01500	.00048	-.06673	1.15274	.36670	3.14358
.199	20.666	4.10202	1.26920	-.04577	-.10504	-.01509	.00065	-.06965	1.20367	.40513	2.97104
.199	20.937	4.08149	1.29334	-.04427	-.11019	-.01461	.00174	-.07098	1.23777	.42082	2.90808
.198	22.051	4.05319	1.37242	-.04021	-.11843	-.01084	.00420	-.07832	1.28713	.47798	2.69287
	GRADIENT	.02062	.04881	-.00253	-.00086	-.00060	.00000	-.00098	.04745	.00362	.44899

PARAMETRIC DATA

BETA = 4.000 BOFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 12.500 ELEVON = 5.000
 ALLRON = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 46/ 0 RN/L = 12.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.200	.063	3.9320	.04654	.06691	-.01984	-.00504	.00621	-.07118	.04647	.06696	.69398
.200	2.146	3.94516	.14518	.06465	-.02118	-.00656	.00601	-.07209	.14265	.07004	2.03664
.200	4.267	3.98946	.24921	.05783	-.02279	-.00782	.00624	-.07371	.24422	.07622	3.20431
.199	6.429	4.01917	.35736	.04671	-.02432	-.00932	.00636	-.07492	.34989	.08643	4.04828
.199	8.755	4.08390	.47123	.03029	-.02539	-.01122	.00708	-.07798	.46115	.10166	4.53578
.199	10.744	4.01642	.57273	.01373	-.02518	-.01340	.00679	-.07582	.56013	.12026	4.65780
.199	11.860	4.06409	.62752	.00375	-.02472	-.01435	.00714	-.07613	.61345	.13266	4.62423
.199	12.912	4.04670	.68350	-.00547	-.02473	-.01458	.00697	-.07594	.66744	.14740	4.52809
.198	14.079	4.04593	.74438	-.01496	-.02570	-.01521	.00630	-.07661	.72566	.16656	4.35680
.198	15.165	4.02466	.80854	-.02405	-.02687	-.01541	.00612	-.07475	.78668	.18830	4.17773
.197	16.321	4.03926	.87533	-.03307	-.03002	-.01585	.00525	-.07411	.84935	.21424	3.96454
.202	17.299	4.01328	.93935	-.04018	-.03436	-.01454	.00428	-.07303	.90881	.24096	3.77154
.202	18.581	3.96859	1.02127	-.04754	-.04151	-.01450	.00188	-.06824	.98318	.28036	3.50685
.202	19.745	3.98543	1.10057	-.05207	-.04827	-.01549	.00036	-.06484	1.05355	.32283	3.26353
.202	20.885	4.00225	1.18721	-.05330	-.06151	-.01519	.00054	-.06678	1.12821	.37343	3.02119
.201	21.956	4.04992	1.26727	-.05134	-.07164	-.01224	.00208	-.07392	1.19455	.42622	2.80268
	GRADIENT	.01198	.04821	-.00216	-.00070	-.00066	.00001	-.00060	.04704	.00220	.59699

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = 4.000 BDFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 12.500 ELEVON = .000
 ALLRON = .000

RUN NO. 33/ 0 RN/L = 12.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.201	-.071	3.92617	-.04863	.06182	.02199	-.00339	.00547	-.06917	-.04855	.06188	-.78463
.200	1.961	3.87024	.04890	.06044	.02130	-.00493	.00539	-.07076	.04680	.06208	.75400
.200	4.089	3.94259	.15442	.05433	.01818	-.00597	.00479	-.07339	.15015	.06520	2.30306
.198	6.231	3.97350	.26295	.04378	.01774	-.00779	.00556	-.07305	.25664	.07207	3.56124
.200	8.374	3.96411	.37115	.02969	.01589	-.00944	.00585	-.07368	.36287	.08342	4.34969
.201	10.621	4.01212	.48248	.01177	.01569	-.01215	.00597	-.07362	.47204	.10049	4.65718
.201	11.725	4.01107	.53975	.00194	.01608	-.01316	.00609	-.07348	.52809	.11158	4.73283
.201	12.704	4.35484	.59187	-.00634	.01484	-.01424	.00649	-.08012	.57877	.12398	4.66839
.201	13.684	3.98922	.65403	-.01611	.01531	-.01353	.00559	-.07294	.63879	.14130	4.52085
.201	14.938	4.03154	.71234	-.02486	.01378	-.01380	.00539	-.07323	.69467	.15960	4.35255
.201	16.094	4.05330	.77862	-.03403	.01183	-.01396	.00469	-.07212	.75754	.18316	4.13602
.200	17.237	4.04723	.84969	-.04255	.00708	-.01339	.00323	-.06977	.82414	.21114	3.90324
.200	18.322	3.95983	.92019	-.04951	.00182	-.01335	.00183	-.06629	.88915	.24216	3.67176
.199	19.427	3.97214	.99485	-.05571	-.00492	-.01392	.00041	-.06474	.95674	.27835	3.43717
.199	20.542	3.95700	1.07319	-.05930	-.01244	-.01458	-.00072	-.06366	1.02576	.32105	3.19500
.199	21.695	4.03740	1.15490	-.05893	-.02198	-.01376	.00024	-.06678	1.09487	.37218	2.94178
	GRADIENT	.02803	.04882	-.00181	-.00092	-.00062	-.00016	-.00102	.04777	.00080	.74212

LAS18 (LARC LIPT 228) REMOTE ELEVON TABULATED SOURCE DATA
 (RJ1029) (30 JUL 76)

PAGE 37

LARC LTPT 228(LAS18)B26C9E+3F9M16N28R5V8W

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

BETA =
 RUDDER =
 RN/L =
 AILRON =

BDFLAP =
 SPDBRK =
 ELEVON =

PARAMETRIC DATA

RUN NO. 75/ 0 RN/L = 6.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.290	-.065	3.89856	-.05459	.06388	.02331	-.00406	.00602	-.05941	-.05452	.06395	-.95260
.290	1.986	3.91651	.04119	.06332	.02304	-.00560	.00624	-.0707	.03900	.06371	.61223
.288	4.088	3.96244	.14405	.05573	.02151	-.00704	.00609	-.07208	.13964	.06685	2.08885
.291	6.218	4.00128	.25027	.04612	.01839	-.00859	.00646	-.07469	.24380	.07295	3.34191
.291	8.338	4.05866	.35962	.03262	.01626	-.01013	.00629	-.07612	.35109	.08443	4.15854
.292	10.531	4.02463	.47030	.01512	.01664	-.01292	.00678	-.07435	.45962	.10082	4.55867
.291	11.585	4.03851	.52547	.00601	.01683	-.01409	.00720	-.07504	.51356	.11141	4.60941
.291	12.659	4.00851	.57395	-.0311	.01705	-.01425	.00676	-.07409	.56653	.12406	4.56674
.291	13.733	4.04003	.63223	-.01229	.01723	-.01465	.00726	-.07422	.62096	.13910	4.46406
.291	14.818	4.01974	.69597	-.02164	.01543	-.01490	.00682	-.07513	.67836	.15708	4.31870
.291	15.920	4.04198	.76152	-.03136	.01307	-.01515	.00642	-.07423	.74091	.17872	4.14558
.291	16.997	4.05845	.82434	-.04041	.01063	-.01583	.00553	-.07332	.80015	.20232	3.95492
.292	18.125	4.06479	.89540	-.04908	.00674	-.01548	.00506	-.07310	.86624	.23190	3.73537
.291	19.220	3.99453	.96757	-.05385	.00247	-.01535	.00233	-.06674	.93137	.26167	3.47960
.290	20.312	3.96658	1.04274	-.05690	-.00377	-.01727	.00311	-.06899	.99765	.30860	3.23285
.292	21.416	4.02378	1.10314	-.04655	-.00795	-.01431	.00744	-.07797	1.04357	.35945	2.90432
	GRADIENT	.01541	.04784	-.00173	-.00043	-.00072	.00002	-.00064	.04676	.00070	.70825

ORIGINAL PAGE IS
 OF POOR QUALITY

LA61B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(RJT030) (30 JUL 76)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1075.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = 4.000 BDFLAP = .000
RUDDER = .000 SPOBRK = 25.000
RN/L = 12.500 ELEVON = -5.000
AILRON = .000

RUN NO. 45/ 0 RN/L = 12.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.205	-.218	3.90966	-.15852	.36265	.06999	-.00361	.00495	-.06781	-.15828	.06325	-2.50244
.205	1.872	3.95463	-.05926	.06278	.06712	-.00543	.00549	-.06882	-.06128	.06081	-1.00757
.204	4.002	3.98782	.04323	.05737	.06724	-.00672	.00456	-.06976	.04112	.06039	.68094
.204	6.144	4.00644	.15257	.04807	.06591	-.00833	.00489	-.07100	.14655	.06412	2.28545
.203	8.333	4.02521	.26326	.03462	.06394	-.00989	.00513	-.07198	.25546	.07241	3.52795
.203	10.515	4.02201	.37239	.01781	.06440	-.01264	.00548	-.07207	.36288	.08546	4.24602
.203	11.615	4.07024	.42822	.00861	.06355	-.01389	.00525	-.07222	.41781	.09466	4.41362
.203	12.716	4.02185	.48649	-.00033	.06347	-.01423	.00515	-.07139	.47463	.10676	4.44562
.204	13.837	4.01176	.54651	-.00339	.06257	-.01456	.00489	-.07044	.53290	.12159	4.38285
.203	14.949	4.05859	.60766	-.01870	.06155	-.01447	.00451	-.07140	.59192	.13868	4.26819
.203	16.041	4.02277	.67199	-.02771	.05893	-.01390	.00416	-.07041	.65348	.15906	4.10840
.203	17.137	4.02364	.74125	-.03598	.05477	-.01368	.00306	-.06882	.71894	.18404	3.90650
.203	18.257	4.00602	.81276	-.04368	.04959	-.01392	.00204	-.06761	.78553	.21314	3.68554
.202	19.398	4.02539	.88916	-.05011	.04281	-.01449	.00082	-.06587	.85532	.24806	3.44811
.202	20.537	3.97947	.96832	-.05406	.03409	-.01537	.00007	-.06472	.92575	.28907	3.20254
.201	21.656	3.99476	1.04670	-.05527	.02590	-.01511	.00030	-.06532	.95321	.33490	2.96569
	GRADIENT	.01851	.04828	-.00126	-.00065	-.00074	-.00009	-.00046	.04725	-.00068	.75448

L618 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(RJT031) (30 JUL 76)

LARC LTPT 228(L618)B26C9E43F\$M16N28R5V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = 4.000 BDFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 12.500 ELEVON = -13.000
 AILRON = .000

FJN NO. 48/ 0 RN/L = 12.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CL	CYN	CY	CD	L/D
.199	-3.325	2.92352	-2.24770	.06716	.10990	-.24732	.00421	-.06667	.06857	-3.60703
.203	1.738	3.93500	-1.5011	.06780	.10915	-.15209	.00418	-.06772	.06321	-2.40602
.202	3.867	3.97578	-0.4716	.06399	.10775	-.05137	.00412	-.06911	.06067	-.84675
.202	6.015	4.02464	.05626	.05569	.10655	.05011	.00410	-.06944	.06128	.81769
.203	8.193	4.02220	.16533	.04331	.10642	.15753	.00445	-.07006	.06644	2.37090
.203	10.362	4.02700	.27257	.02764	.10679	.66316	.00432	-.06967	.07622	3.45281
.203	11.469	4.02504	.32952	.01838	.10659	.31958	.00407	-.06833	.08359	3.82299
.203	12.551	4.04344	.38502	.01014	.10579	.37362	.00392	-.06822	.09356	3.99315
.202	13.697	4.04032	.44685	.00049	.10615	.43402	.00376	-.06784	.10629	4.08335
.203	14.789	4.05254	.50646	-.00823	.10478	.49181	.00366	-.06923	.12122	4.05707
.203	15.930	4.02391	.57330	-.01759	.10276	.55611	.00330	-.06747	.14043	3.96001
.204	17.037	4.03176	.63661	-.02602	.10065	.61629	.00248	-.06725	.16164	3.81277
.204	18.138	4.01751	.70753	-.03391	.09604	.68293	.00188	-.06628	.18804	3.63190
.203	19.249	3.97969	.78141	-.04077	.08864	.75116	.00154	-.06287	.21911	3.42818
.203	20.408	3.99978	.86245	-.04542	.08178	.82415	.00045	-.06461	.25817	3.19228
.202	21.525	3.96868	.93938	-.04727	.07377	.89121	.00038	-.06397	.30069	2.96383
	GRADIENT	.01250	.04784	-.00076	-.00051	.04675	-.00002	-.00058	-.00188	.65886

LA618 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8M

(RJ032) (30 JUL 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

BETA = .000 BOFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 12.500 ELEVON = 10.000
 AILRON = .000

PARAMETRIC DATA

RUN NO. 51/ 0 RN/L = 12.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.200	-2.227	.00127	.03185	.07475	-.05858	-.00243	.00008	-.00113	.03474	.07346	.47286
.200	-1.138	.00044	.08532	.07584	-.05917	-.00237	.00015	-.00052	.08681	.07413	1.17102
.200	.302	-.00071	.13906	.07620	-.05949	-.00237	-.00015	.00045	.13906	.07621	1.82473
.200	1.086	-.00055	.19467	.07512	-.05998	-.00247	-.00023	.00077	.19321	.07880	2.45137
.200	2.170	.00078	.24472	.07234	-.05970	-.00199	.00005	-.00095	.24181	.08156	2.96195
.200	4.398	.00625	.35060	.06401	-.06012	-.00211	.00021	-.00136	.34466	.09071	3.79355
.200	6.489	.00496	.45223	.05213	-.06179	-.00197	.00006	-.00147	.44344	.10290	4.30330
.200	8.710	.02511	.56456	.03634	-.06459	-.00215	.00034	-.00254	.61255	.12141	4.55090
.200	10.880	.01556	.67869	.01920	-.06582	-.00283	.00033	-.00112	.66286	.14697	4.51035
.200	11.993	.02214	.73607	.00959	-.06616	-.00328	.00022	-.00236	.71793	.16272	4.41210
.201	13.065	.00767	.79390	.00096	-.06696	-.00339	.00027	-.00150	.77313	.18041	4.28549
.200	14.155	.01246	.85469	-.00808	-.06793	-.00331	.00022	-.00160	.83072	.20117	4.12937
.200	15.286	.01073	.91545	-.01714	-.06914	-.00298	.00000	-.00125	.88758	.22481	3.94805
.200	16.416	.01543	.99382	-.02503	-.07206	-.00277	-.00044	-.00115	.95107	.25307	3.75815
.201	17.516	.01075	1.05132	-.03418	-.07583	-.00289	-.00064	.00000	1.01286	.28381	3.56879
.201	18.657	.00959	1.13291	-.04015	-.08430	-.00174	-.00262	.00331	1.08611	.32138	3.34858
.201	19.775	.00645	1.21200	-.04209	-.09346	-.00257	-.00270	.00314	1.15477	.37044	3.11730
.201	21.051	.00845	1.30075	-.03633	-.10367	-.00141	-.00090	-.00112	1.22699	.43332	2.83159
.200	22.129	.01002	1.37864	-.03248	-.11392	-.00063	-.00086	-.00206	1.28932	.49324	2.63533
.202	23.292	.02145	1.45014	-.03063	-.11593	.00157	-.00089	-.00277	1.34406	.54328	2.46489
	GRADIENT	.00070	.04816	-.00162	-.00021	.00006	.00001	-.00008	.04662	.00261	.50510

LARC LTPT 228(LA61B)B26C9E4378M16N28R5V8H

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 13.000 ELEVON = 5.000
 AIRLON = .000

RUN NO. 42/ 0 RN/L = 12.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CTL	CYN	CY	CL	CD	L/O
.205	-2.353	-.00361	-.06459	.06577	-.01574	-.00185	-.00040	.00092	-.06183	.06837	-.90444
.206	-1.262	-.00250	-.01314	.06744	-.01647	-.00197	-.00080	-.00015	-.01165	.06771	-.17202
.206	-.147	-.00071	.03999	.06788	-.01650	-.00197	-.00028	.00052	.04017	.06777	.59268
.205	.935	.00075	.09176	.06720	-.01722	-.00202	-.00056	.00005	.09055	.06868	1.31975
.205	1.986	.00138	.14292	.06531	-.01757	-.00208	-.00050	-.00001	.14057	.07022	2.00188
.204	4.207	.00396	.25079	.05765	-.01835	-.00210	-.00044	-.00066	.24589	.07590	3.23968
.204	6.348	.00747	.35277	.04624	-.01879	-.00251	-.00014	-.00227	.34550	.08496	4.06648
.204	8.554	.00482	.46315	.03064	-.02030	-.00249	-.00029	-.00128	.45344	.09919	4.57126
.204	10.908	.00319	.57812	.01255	-.01813	-.00253	-.00029	-.00084	.56530	.12173	4.64393
.204	11.851	.00958	.62437	.00488	-.01671	-.00264	.00005	-.00171	.61006	.13300	4.58695
.203	13.017	.00634	.68470	-.00471	-.01658	-.00288	-.00036	-.00141	.66817	.14962	4.46565
.203	14.201	.01457	.75166	-.01449	-.01778	-.00340	-.00010	-.00128	.73224	.17035	4.29836
.203	15.555	.03498	.82722	-.02579	-.02006	-.00304	-.00076	-.00033	.80384	.19700	4.08047
.202	16.265	.00980	.86904	.03128	-.02221	-.00283	-.00049	-.00146	.84302	.21338	3.95084
.202	17.421	.00398	.94479	-.04002	-.02736	-.00267	-.00063	.00110	.91343	.24467	3.73328
.202	18.545	.00100	1.02332	-.04680	-.03498	-.00187	-.00188	.00230	.98507	.28109	3.50439
.202	19.623	.00698	1.10063	-.05046	-.04414	-.00170	-.00191	.00032	1.05365	.32208	3.27137
.201	20.925	.01440	1.18936	-.04845	-.05382	-.00203	-.00156	-.00058	1.12823	.37952	2.97281
.201	21.969	.01647	1.26249	-.04476	-.06215	-.00015	-.00154	-.00164	1.18756	.43080	2.75661
.201	24.271	.00679	1.40406	-.04335	-.06980	.00177	-.00171	-.00130	1.29736	.53854	2.40905
.199	GRADIENT	.00116	.04810	-.00123	-.00039	-.00005	.00001	-.00019	.04693	.00115	.63671

REFERENCE DATA
 SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA
 BETA = .000 BOFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 13.000 ELEVON = -5.000
 AILRON = .000

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.203	-2.612	-.00557	-.25996	.06006	.07171	-.00138	-.00041	.00014	-.25695	.07184	-3.57652
.204	-1.534	-.00069	-.20859	.06262	.07053	-.00150	-.00065	-.00020	-.20684	.06818	-3.03375
.204	-.444	.00138	-.15625	.06416	.07018	-.00154	-.00049	-.00085	-.15575	.06537	-2.38248
.204	.625	.00287	-.10562	.06432	.06971	-.00158	-.00041	-.00045	-.10631	.06316	-1.68317
.204	1.722	.00601	-.05012	.06306	.06920	-.00158	-.00001	-.00052	-.05199	.06153	-.84498
.203	4.071	.01056	.05661	.05748	.06908	-.00181	-.00058	-.00105	.05239	.05136	.85381
.204	6.088	.00699	.15675	.04807	.06842	-.00193	-.00024	-.00131	.15077	.06442	2.34042
.204	8.300	.00619	.26631	.03368	.06650	-.00210	-.00038	-.00129	.25865	.07177	3.60389
.204	10.517	.00465	.37606	.01779	.06776	-.00195	-.00040	-.00172	.36649	.08613	4.25487
.204	11.591	.00895	.42829	.00943	.06903	-.00204	-.00044	-.00211	.41766	.09530	4.38278
.204	12.754	.00287	.48628	.00044	.06980	-.00217	-.00018	-.00176	.47419	.10778	4.39964
.203	14.033	.00441	.55656	-.00996	.06926	-.00240	-.00032	-.00269	.54236	.12529	4.32894
.204	14.889	.00962	.60388	-.01680	.06873	-.00241	-.00033	-.00172	.58793	.13893	4.23185
.203	16.079	.00691	.67419	-.02656	.06518	-.00237	-.00055	-.00264	.65518	.16121	4.06421
.204	17.342	.00511	.75628	-.03642	.05907	-.00218	-.00108	-.00101	.73275	.19066	3.84316
.203	18.428	.00600	.82836	-.04356	.05247	-.00258	-.00213	.00096	.79965	.20353	3.62599
.203	19.425	.01707	.89650	-.04882	.04511	-.00207	-.00152	-.00029	.86170	.25212	3.41781
.204	20.736	.01108	.98382	-.05128	.03731	-.00179	-.00176	.00182	.93825	.30037	3.12360
.203	21.560	.03751	1.04232	-.05076	.03287	-.00141	-.00133	-.00212	.98746	.33754	2.92547
.201	24.128	.00998	1.20355	-.04992	.02159	-.00234	-.00171	-.00350	1.11881	.44642	2.50619
	GRADIENT	.00229	.04756	-.00041	-.00038	-.00006	.00001	-.00014	.04648	-.00158	.67046

LARC LTPT 228(LAS1B)B26C9E43F8M16N28R5V8W

(RJT035) (30 JUL 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 12.500 ELEVON = -10.000
 AILRON = .000

RUN NO. 49/ 0 RN/L = 12.54 GRAD ENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.205	-2.775	.00850	-.35869	.03399	.11505	-.00146	-.00053	-.00249	-.35517	.08128	-4.36974
.204	-1.734	.00680	-.31057	.06721	.11469	-.00169	-.00062	-.00234	-.30839	.07658	-4.02695
.203	-.593	.00272	-.25628	.06919	.11362	-.00170	-.00080	-.00103	-.25554	.07187	-3.55588
.203	.502	.00139	-.20386	.07001	.11320	-.00186	-.00057	-.00126	-.20446	.06822	-2.99695
.203	1.635	.00412	-.15036	.06956	.11259	-.00197	-.00074	-.00181	-.15229	.06525	-2.33406
.203	3.780	-.00081	-.04947	.06514	.11260	-.00223	-.00067	-.00185	-.05366	.06174	-.86917
.204	5.939	-.00755	.05290	.06337	.11254	-.00234	-.00046	-.00152	.04668	.06153	.75865
.205	8.144	-.00480	.16346	.04307	.11158	-.00244	-.00069	-.00218	.15571	.06579	2.36661
.204	10.398	-.02049	.27642	.02750	.11179	-.00257	-.00067	-.00188	.26692	.07693	3.46961
.204	11.472	-.02226	.32864	.01956	.11385	-.00279	-.00052	-.00238	.31816	.08463	3.75954
.204	12.546	-.01956	.38230	.01160	.11484	-.00286	-.00070	-.00182	.37065	.09437	3.92782
.204	13.644	-.00951	.43796	.00387	.11517	-.00287	-.00073	-.00150	.42493	.10610	4.00487
.204	14.744	-.01592	.50329	-.00581	.11425	-.00297	-.00073	-.00231	.48530	.12171	3.98734
.204	15.886	-.02955	.56753	-.01519	.11191	-.00310	-.00030	-.00208	.55001	.14073	3.90815
.205	16.977	-.01987	.63555	-.02421	.10722	-.00304	-.00105	-.00138	.61493	.16242	3.78609
.204	18.171	-.03898	.71301	-.03287	.10167	-.00347	-.00209	-.00011	.68770	.19113	3.59813
.204	19.339	-.02537	.78766	-.03954	.09513	-.00297	-.00189	-.00112	.75631	.22353	3.39345
.204	20.342	-.03386	.85664	-.04316	.08950	-.00248	-.00160	-.00061	.81822	.25731	3.17984
.204	21.675	-.03040	.94564	-.04555	.08245	-.00272	-.00172	-.00005	.89560	.30694	2.91785
.204		-.00127	.04726	.00017	-.00041	-.00011	-.00002	.00009	.04608	-.00300	.53531

GRADIENT

LA61B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

PAGE 44

LARC LTPT 228(LA61B)B26C9L43FBM16N28R5V8H

(RJ036) (30 JUL 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

BETA =
 RUDDER =
 RN/L =
 AILRON =

BOFLAP = .000
 SPOBRK = 25.000
 ELEVON = .000

PARAMETRIC DATA

RUN NO. 31/ 0 RN/L = 12.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CLBL	CYN	CY	CL	CD	L/D
.199	-0.43	-1.81537	-0.03078	.00260	.02495	.00083	-.00406	.03785	-.03074	.06262	-.49081
.198	1.896	-1.83235	.06319	.05077	.02452	.00109	-.00344	.03509	.06114	.06283	.97317
.198	4.000	-1.90722	.16350	.05427	.02361	.00124	-.00311	.03554	.15932	.06555	2.43049
.197	6.181	-1.95820	.26890	.04321	.02218	.00155	-.00322	.03656	.26269	.07191	3.65293
.200	8.351	-1.98484	.37692	.02875	.02029	.00224	-.00411	.03753	.36786	.08305	4.42931
.201	10.602	-1.99067	.48670	.01144	.02062	.00343	-.00324	.03472	.47628	.10079	4.72535
.201	11.716	-2.00324	.54353	.00271	.02213	.00375	-.00339	.03604	.53166	.11302	4.70411
.201	12.729	-1.99398	.59216	-.00569	.02289	.00343	-.00312	.03565	.57886	.12493	4.63358
.200	14.976	-1.98950	.71571	-.02434	.02155	.00334	-.00304	.03578	.69770	.16143	4.32197
.203	16.086	-2.00973	.8032	-.03371	.01884	.00311	-.00243	.03265	.75900	.18421	4.12026
.200	17.199	-1.99068	.84933	-.04217	.01493	.00323	-.00296	.03566	.82382	.21085	3.90711
.200	18.815	-2.03855	.95646	-.05200	.00575	.00426	-.00282	.03501	.92211	.25325	3.55688
.199	19.400	-1.94455	.99248	-.05449	.00288	.00435	-.00259	.03268	.95423	.27828	3.42905
.199	20.527	-1.96850	1.06943	-.05664	-.00574	.00512	-.00234	.03390	1.02103	.32289	3.16216
.198	21.597	-1.98905	1.13914	-.05450	-.01119	.00554	-.00214	.03292	1.07923	.36862	2.92774
	GRADIENT	.02290	.04805	.00207	-.00033	.00010	.00023	-.00056	.04700	.00073	.72213

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150
 BETA =
 RUDDER =
 RN/L =
 AILRON =

RUN NO. 43/ 0 RN/L = 12.30 GRACIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.204	.110	-3.93793	.06990	.06584	-.02104	.00252	-.00719	.07385	.06978	.06597	1.05761
.204	2.191	-3.91870	.16980	.06270	-.02147	.00360	-.00655	.07115	.16728	.06914	2.41921
.204	4.330	-3.97229	.26936	.05519	-.02243	.00448	-.00644	.07067	.26443	.07537	3.50842
.203	6.460	-4.00734	.37160	.04401	-.02378	.00521	-.00648	.07128	.36429	.08554	4.25898
.204	8.174	-3.78705	.45462	.03231	-.02385	.00558	-.00614	.06734	.44541	.09662	4.60973
.203	10.847	-4.02004	.58906	.00990	-.02458	.00813	-.00605	.06952	.57667	.12058	4.78241
.203	11.938	-4.01353	.64467	.00072	-.02417	.00854	-.00625	.06954	.63058	.13406	4.70387
.203	13.065	-4.02730	.70180	-.00881	-.02340	.00887	-.00614	.06974	.68562	.15006	4.56894
.203	14.148	-4.04692	.76039	-.01768	-.02330	.00903	-.00616	.07007	.74165	.16872	4.39572
.203	15.241	-4.02047	.81947	-.02639	-.02487	.00919	-.00616	.06952	.79756	.19005	4.19648
.202	16.341	-4.01858	.88715	-.03530	-.02732	.00889	-.00580	.06995	.86124	.21573	3.98222
.202	17.452	-4.01994	.95521	-.04362	-.03227	.00836	-.00454	.06608	.92433	.24485	3.77503
.202	18.550	-4.00657	1.02786	-.05087	-.03887	.00848	-.00388	.06458	.99064	.27877	3.55360
.201	19.702	-4.00520	1.11177	-.05396	-.04769	.01003	-.00245	.06408	1.06431	.32381	3.28682
.200	20.796	-4.01425	1.18472	-.05398	-.05545	.01224	-.00177	.06371	1.12667	.37025	3.04503
.200	21.959	-3.95878	1.25655	-.05196	-.06009	.01156	-.00293	.06446	1.18482	.42168	2.80978
.200		-.00822	.04726	-.00253	-.00033	.00046	.00018	-.00075	.04612	.00223	.58043

ORIGINAL PAGE IS
OF POOR QUALITY

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

BETA =
 RUDDER =
 RN/L =
 AILRON =

BDFLAP = .000
 SPDBRK = .000
 ELEVON = .000

PARAMETRIC DATA

RUN NO. 76/ 0 RN/L = 6.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CPI	CYN	CY	CL	CD	L/D
.290	-0.017	-3.99815	-0.3125	.06308	.02232	.00160	-.00743	.06916	-.03123	.06309	-.49501
.288	2.011	-3.91542	.06378	.06092	.02250	.00267	-.00686	.06850	.06160	.76312	.97592
.290	4.116	-3.95682	.16145	.05437	.02218	.00368	-.00628	.06758	.15714	.06582	2.38741
.288	6.226	-3.99161	.26678	.04404	.02026	.00455	-.00628	.06860	.26043	.07271	3.58153
.290	8.404	-4.00922	.37531	.02955	.01880	.00582	-.00648	.06896	.36696	.08408	4.36424
.289	10.510	-4.01350	.48150	.01258	.01798	.00829	-.00601	.06765	.47113	.10019	4.70217
.290	11.601	-4.00714	.53558	.00345	.01782	.00860	-.00611	.06670	.52394	.11108	4.71684
.291	12.674	-4.01345	.58863	-.00575	.01877	.00886	-.00601	.06764	.57653	.12375	4.65873
.290	13.115	-3.99478	.64807	-.01476	.01894	.00866	-.00609	.06656	.63297	.13987	4.52533
.289	14.145	-4.00091	.70551	-.02350	.01867	.00836	-.00638	.06809	.68798	.15803	4.35341
.290	15.924	-4.01571	.76769	-.03246	.01771	.00855	-.00625	.06821	.74714	.17942	4.16428
.289	17.004	-4.02120	.83277	-.04151	.01514	.00838	-.00605	.06801	.80851	.20384	3.96641
.290	18.124	-4.00973	.90098	-.05025	.01210	.00918	-.00576	.06740	.87191	.23252	3.74988
.290	19.212	-3.97507	.97653	-.05504	.00539	.00982	-.00536	.06340	.94025	.26937	3.49061
.290	20.316	-3.97962	1.04284	-.05761	.00164	.01214	-.00197	.05949	.99797	.30804	3.23978
.290	21.396	-3.92935	1.10185	-.05134	-.00017	.01140	-.00348	.06217	1.04464	.35417	2.94955
	GRADIENT	-.01423	.04662	-.00211	-.00003	.00050	.00028	-.00038	.04558	.00066	.69725

LAS1B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA
LARC LTPT 228(LA61B)B26C9E43FBM16N20R5VBH

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

BETA =
RUDDER =
RN/L =
AIRRON =

BDFLAP =
SPDBRK =
ELEVON =

RUN NO. 32/ 0 RN/L = 12.74 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.198	-.011	-3.83057	-.02161	.06114	.02063	.00233	-.00650	.07462	-.02160	.06114	-.35322
.201	2.070	-3.97813	.07896	.06858	.02023	.00342	-.00667	.07384	.07679	.06140	1.25072
.201	4.108	-3.92827	.17599	.05217	.01975	.00409	-.00612	.07103	.17180	.06464	2.65789
.200	6.263	-3.95204	.28256	.04145	.01858	.00488	-.00612	.07255	.27635	.07203	3.83679
.200	8.426	-3.98733	.38692	.02692	.01690	.00536	-.00693	.07188	.37880	.08333	4.54571
.200	10.575	-3.96567	.49394	.00937	.01683	.00832	-.00592	.06932	.48384	.09986	4.84505
.200	11.679	-4.01372	.54940	.00013	.01713	.00874	-.00591	.07061	.53800	.11134	4.83187
.200	12.752	-3.99074	.59900	-.00801	.01739	.00866	-.00634	.06733	.58599	.12441	4.71003
.199	13.878	-4.00042	.65236	-.01792	.01786	.00882	-.00597	.06977	.64732	.14147	4.57563
.201	14.984	-3.98294	.72247	-.02679	.01676	.00881	-.00564	.06859	.70483	.16091	4.38015
.201	16.180	-4.00960	.79415	-.03651	.01392	.00865	-.00548	.06883	.77286	.18623	4.15005
.201	17.241	-4.00298	.85901	-.04456	.01043	.00842	-.00479	.05773	.83362	.21205	3.93125
.199	18.286	-4.01137	.92281	-.05159	.00642	.00879	-.00355	.06460	.89239	.24055	3.70978
.197	19.406	-3.92273	1.00105	-.05669	-.00076	.00987	-.00291	.06275	.96301	.27914	3.44995
.198	20.538	-4.03137	1.07585	-.05875	-.00815	.01148	-.00197	.06304	1.02808	.32243	3.18857
.202	21.765	-3.92273	1.15125	-.05732	-.01289	.01188	-.00244	.06286	1.09044	.37365	2.91834
	GRADIENT	-.02389	.04797	-.00217	-.00021	.00043	.00009	-.00087	.04695	.00085	.73117

LA518 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

PAGE 48

(RJT040) (30 JUL 76)

LARC LTPT 228(LA518)B26C9E-316M16N28R5VBH

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

BETA =
 RUDDER =
 RN/L =
 AILRON =

-4.000 RDLAP = .000
 .000 SPDRK = 25.000
 12.500 ELEVON = -5.000
 .000

PARAMETRIC DATA

RUN NO. 44/ 0 RN/L = 12.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.205	-1.167	-3.91897	-1.13054	.06268	.06739	.00065	-.00644	.06825	-.13036	.06306	-2.06723
.205	1.907	-3.91301	-.03419	.06173	.06744	.00189	-.00590	.06699	-.03623	.06056	-.59821
.205	4.029	-3.90981	.06539	.05616	.06683	.00281	-.00590	.06711	.06128	.06061	1.01107
.205	6.178	-3.90309	.16999	.04637	.06622	.00364	-.00571	.06708	.16401	.06439	2.54716
.205	7.879	-3.77306	.25468	.03603	.06539	.00351	-.00546	.06288	.24754	.07063	3.57479
.204	10.562	-4.00151	.38777	.01524	.06455	.00704	-.00561	.06504	.37841	.08606	4.39697
.204	11.635	-4.01868	.44166	.00619	.06115	.00790	-.00531	.06441	.43134	.09513	4.53415
.204	12.746	-3.99609	.49255	-.00275	.06145	.00805	-.00546	.06437	.48688	.10731	4.53706
.204	13.877	-4.03639	.55721	-.01180	.06111	.00816	-.00560	.06487	.54377	.12218	4.45061
.204	14.947	-4.03795	.61692	-.02072	.06358	.00777	-.00558	.06478	.60139	.13912	4.32271
.203	15.054	-4.01117	.68198	-.02970	.06098	.00747	-.00539	.06530	.66360	.16006	4.14602
.204	17.174	-4.03575	.75191	-.03832	.05637	.00689	-.00496	.06458	.72970	.18540	3.93571
.203	18.200	-4.03841	.81988	-.04568	.05309	.00762	-.00370	.06193	.79284	.21378	3.70858
.203	19.427	-3.95212	.89780	-.05172	.04591	.00855	-.00348	.06062	.86389	.24983	3.45786
.202	20.528	-3.95369	.97335	-.05506	.03892	.00950	-.0167	.05804	.93085	.28975	3.21264
.202	21.666	-3.94696	1.04299	-.05590	.03294	.01107	-.00201	.05856	.98994	.33312	2.97174
	GRADIENT	-.01690	.04670	-.00156	-.00013	.00051	.00013	-.00027	.04567	-.00058	.73372

L61B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

LARC LTPT 228(L61B)B26C9E43F8M16N28R5V8W

PAGE 49

(RJ0401) (30 JUL 76)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

ALPHA =
RUDDER =
RN/L =
AILRON =

.000 BDFLAP = .000
.000 SPDBRK = 25.000
12.500 ELEVON = 10.000
.000

PARAMETRIC DATA

RUN NO. 55/ 0 RN/L = 12.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.205	-5.988	.27101	.17993	.07105	-.07050	.00439	-.01089	.11241	.17959	.07190	2.49770
.204	-3.999	.25068	.16930	.07415	-.06480	.00226	-.00761	.07558	.16957	.07489	2.26421
.204	-2.861	.23579	.16434	.07499	-.06203	.00105	-.00541	.05471	.16403	.07567	2.16776
.205	-1.856	.23167	.16106	.07555	-.06007	.00003	-.00399	.03607	.16076	.07620	2.10978
.205	-.788	.22560	.15713	.07573	-.05839	-.00101	-.00208	.01520	.15683	.07635	2.05409
.205	.173	.21194	.15065	.07650	-.05334	-.00176	-.00356	-.00114	.15036	.07705	1.95139
.205	1.243	.21466	.15528	.07599	-.05975	-.00293	.00130	-.02344	.15500	.07657	2.02416
.204	2.320	.21062	.15505	.07591	-.06091	-.00408	.00334	-.04330	.15477	.07649	2.02378
.204	2.531	.21179	.15635	.07552	-.06172	-.00447	.00423	-.04987	.15607	.07610	2.05087
.204	3.318	.20767	.15575	.07552	-.06351	-.00521	.00543	-.06474	.15547	.07608	2.04340
.204	4.360	.20492	.15734	.07461	-.06522	-.00630	.00682	-.08227	.15707	.07517	2.08954
.204	6.439	.20162	.16005	.07152	-.07041	-.00852	.01056	-.12009	.15980	.07208	2.21693
	GRADIENT	-.00507	-.00141	.00007	-.00014	-.00102	.00175	-.01908	-.00140	.00005	-.01993

LARC LTPT 228(L61B)B26C9E43F8M16N28R5V8W

(RJ0402) (30 JUL 76)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

ALPHA =
RUDDER =
RN/L =
AILRON =

6.000 BDFLAP = .000
.000 SPDBRK = 25.000
12.500 ELEVON = 10.000
.000

PARAMETRIC DATA

RUN NO. 56/ 0 RN/L = 12.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.205	-6.030	6.68366	.48713	.04759	-.07439	.00916	-.01013	.11116	.47828	.10396	4.60050
.205	-4.015	6.61870	.47350	.04957	-.06773	.00533	-.00663	.07220	.46463	.10382	4.47548
.205	-3.009	6.60933	.46938	.05014	-.06512	.00342	-.00467	.05297	.46049	.10383	4.43505
.205	-1.993	6.54684	.46068	.05074	-.06254	.00164	-.00340	.03480	.45189	.10294	4.38591
.205	-.996	6.54598	.45962	.05131	-.06175	-.00003	-.00148	.01571	.45078	.10338	4.36055
.204	.009	6.53580	.45609	.05178	-.06214	-.00175	.00016	-.00352	.44723	.10336	4.32695
.207	1.015	6.55478	.45356	.05202	-.06285	-.00340	.00179	-.02204	.44466	.10345	4.29828
.207	2.004	6.55472	.45380	.05243	-.06437	-.00520	.00369	-.04001	.44485	.10389	4.28208
.205	3.308	6.37332	.44340	.05358	-.06622	-.00758	.00574	-.06466	.44371	.10246	4.24267
.205	4.312	6.57563	.45628	.05213	-.06875	-.00879	.00685	-.07773	.44731	.10404	4.29955
.205	6.042	6.63313	.46029	.05022	-.07359	-.01239	.01065	-.11600	.45141	.10305	4.38046
	GRADIENT	-.01463	-.00276	.00041	-.00020	-.00174	.00168	-.01857	-.00276	-.00003	-.02564

LASIB (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

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LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8H

(RJ043) (30 JUL 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

ALPHA =
RUDDER =
RN/L =
AILRON =

13.000 BDFLAP = .000
.000 SPOBRK = 25.000
12.500 ELEVON = 10.000
.000

PARAMETRIC DATA

RUN NO. 57/ 0 RN/L = 12.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.207	-6.032	13.29433	.82383	-.00707	-.07930	.01435	-.00964	.10772	.80337	.18256	4.40055
.205	-4.051	13.17852	.81238	-.00331	-.07235	.00802	-.00636	.07157	.79173	.18199	4.35039
.206	-3.009	13.20452	.80898	-.00173	-.06935	.00476	-.00448	.05216	.78798	.18311	4.30334
.207	-2.024	13.18900	.80604	-.00094	-.06775	.00207	-.00301	.03416	.78499	.18299	4.28984
.207	-.979	13.15035	.80106	-.00021	-.06691	-.00077	-.00125	.01490	.78010	.18204	4.28533
.207	.006	13.12553	.80187	-.00024	-.06712	-.00359	.00011	-.00417	.78075	.18282	4.27069
.206	1.031	13.15864	.80022	.00061	-.06781	-.00633	.00210	-.00213	.77907	.18276	4.26271
.207	2.037	13.15929	.79882	.00101	-.06961	-.00911	.00374	-.04150	.77761	.18285	4.25284
.206	3.033	13.16045	.80347	.00031	-.07341	-.01242	.00560	-.05934	.78230	.18323	4.26944
.207	4.058	13.15989	.80093	-.00090	-.07529	-.01543	.00784	-.07989	.79011	.18146	4.29512
.207	6.073	13.24601	.80568	-.00246	-.08167	-.02118	.01163	-.11841	.78481	.18221	4.30718
	GRADIENT	-.00432	-.00128	.00034	-.00047	-.00285	.00171	-.01860	-.00131	-.00302	-.00666

LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8H

(RJ044) (30 JUL 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

ALPHA =
RUDDER =
RN/L =
AILRON =

20.000 BDFLAP = .000
.000 SPOBRK = 25.000
12.500 ELEVON = 10.000
.000

PARAMETRIC DATA

RUN NO. 58/ 0 RN/L = 12.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.208	-6.007	20.01398	1.23843	-.04666	-.10430	.01617	-.00244	.09722	1.17960	.38001	3.10414
.209	-4.054	20.03000	1.23579	-.04390	-.09860	.01079	-.00284	.06623	1.17628	.38142	3.08396
.207	-2.963	19.04931	1.23300	-.04199	-.09707	.00714	-.00245	.04920	1.17334	.38122	3.07786
.209	-1.925	19.96163	1.23538	-.04095	-.09661	.00345	-.00255	.03307	1.17514	.38326	3.06620
.208	-1.010	19.93721	1.23026	-.04129	-.09582	.00042	-.00235	.01820	1.17061	.38069	3.07498
.208	-.010	19.93450	1.22420	-.04244	-.09426	-.00271	-.00303	.00292	1.16532	.37748	3.08707
.208	1.082	19.92350	1.22328	-.04194	-.09468	-.00596	-.00300	-.01152	1.16436	.37742	3.08505
.207	1.985	19.94035	1.22566	-.04221	-.09595	-.00891	-.00251	-.03060	1.16676	.37839	3.08350
.209	2.250	19.96134	.87992	-.01088	-.09796	-.01056	.00410	-.04481	.85438	.21071	4.05484
.207	3.044	19.92634	1.22208	-.04309	-.09788	-.01171	.00165	-.04843	1.16360	.37599	3.09475
.208	4.015	19.95024	1.22547	-.04345	-.10128	-.01483	-.00053	-.06609	1.16675	.37729	3.09245
.203	6.016	20.01666	1.23455	-.04428	-.11188	-.02034	.00185	-.10165	1.17522	.38101	3.08450
	GRADIENT	-.17169	-.01233	.00090	.00061	-.00319	.00037	-.01657	-.01114	-.00591	.03205

LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8M

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO ALPHA = .000 BDFLAP = .000
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO RUDDER = .000 SPOBRK = 25.000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RN/L = 12.500 ELEVON = .000
 SCALE = .0150

RUN NO. 34/ 0 RN/L = 12.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.201	-5.874	-.00964	-.01266	.05821	.01488	.00391	-.01005	.10763	-.01265	.05821	-.21732
.200	-3.806	-.02231	-.02217	.06127	.02104	.00212	-.00678	.07047	-.02215	.06128	-.36143
.200	-2.773	-.02897	-.02601	.06223	.02337	.00125	-.00528	.05218	-.02597	.06224	-.41729
.200	-1.750	-.03315	-.02918	.06303	.02484	.00056	-.00402	.03404	-.02915	.06304	-.46230
.200	-.757	-.03922	-.03240	.06345	.02589	-.00009	-.00258	.01626	-.03236	.06347	-.50985
.201	.329	-.04428	-.03404	.06342	.02619	-.00089	-.00098	-.00403	-.03399	.06345	-.53571
.201	1.446	-.04921	-.03607	.06358	.02561	-.00165	-.00031	-.02412	-.03602	.06362	-.56619
.200	2.333	-.04988	-.03480	.06311	.02447	-.00224	.00207	-.03976	-.03475	.06314	-.55031
.199	3.356	-.05056	-.03454	.06245	.02280	-.00303	.00376	-.05833	-.03449	.06248	-.55196
.200	4.431	-.05361	-.03356	.06120	.02021	-.00383	.00496	-.07802	-.03350	.06133	-.54624
.200	6.475	-.04131	-.03100	.05793	.01503	-.00541	.00857	-.11410	-.03095	.05795	-.53417
	GRADIENT	-.00379	-.00140	.00002	-.00010	-.00071	.00144	-.01805	-.00140	.00002	-.02236

LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8M

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO ALPHA = .000 BDFLAP = .000
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO RUDDER = .000 SPOBRK = 25.000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RN/L = 12.500 ELEVON = .000
 SCALE = .0150

RUN NO. 35/ 0 RN/L = 12.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.201	-5.978	6.30320	.29125	.03908	.01240	.00821	-.00941	.10817	.28520	.07083	4.02684
.202	-3.945	6.25327	.27972	.04171	.01869	.00494	-.00629	.06879	.27351	.07193	3.80223
.201	-2.979	6.23300	.27545	.04250	.02100	.00325	-.00480	.05254	.26921	.07215	3.73102
.202	-1.981	6.22885	.27189	.04297	.02247	.00158	-.00320	.03324	.26562	.07221	3.67831
.200	-.976	6.09586	.26243	.04418	.02317	.00020	-.00223	.01626	.25626	.07180	3.56892
.200	.024	6.16698	.26365	.04406	.02321	-.00137	-.00078	-.00241	.25739	.07213	3.56855
.200	.990	6.15746	.26161	.04452	.02280	-.00292	.00105	-.02003	.25533	.07233	3.53025
.201	1.998	6.21641	.26280	.04444	.02157	-.00445	.00257	-.03711	.25644	.07264	3.53032
.200	3.266	6.05755	.25262	.04507	.01974	-.00642	.00462	-.06096	.24645	.07147	3.44815
.200	3.961	6.26515	.26356	.04366	.01767	-.00767	.00553	-.07478	.25722	.07216	3.56445
.200	5.951	6.27290	.26569	.04161	.01332	-.01064	.00887	-.11048	.25955	.07039	3.68724
	GRADIENT	-.00786	-.00255	.00031	-.00017	-.00157	.00150	-.01811	-.00256	.00000	-.03562

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REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 36/ 0 RN/L = 12.50 GRACIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

ALPHA = 13.000 BOFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 12.500 ELEVON = .000
 AILRON = .000

MACH	BETA	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.200	-6.030	12.80632	.61517	-.01157	.01008	.01482	-.00917	.10454	.60244	.12507	4.81676
.200	-4.003	12.75895	.60326	-.00877	.01796	.00915	-.00596	.06866	.59030	.12467	4.73476
.200	-2.969	12.77154	.59943	-.00700	.02143	.00824	-.00469	.05109	.58615	.12568	4.66374
.200	-2.016	12.73704	.59284	-.00568	.02318	.00754	-.00334	.03434	.57931	.12512	4.63000
.201	-1.003	12.72974	.59108	-.00533	.02480	.0075	-.00179	.01621	.57772	.12505	4.62008
.200	-.018	12.76211	.59076	-.00521	.02486	.0075	-.00053	-.00054	.57732	.12542	4.60291
.200	.997	12.71241	.58709	-.00417	.02411	-.00474	.00120	-.01977	.57362	.12512	4.58439
.200	1.962	12.71989	.58710	-.00421	.02244	-.00737	.00243	-.03676	.57362	.12516	4.58306
.200	2.991	12.73806	.59033	-.00555	.01971	-.01028	.00418	-.05482	.57702	.12475	4.62559
.200	3.976	12.75772	.59235	-.00647	.01634	-.01298	.00572	-.07139	.57916	.12449	4.65209
.200	6.025	12.88234	.60183	-.00844	.00846	-.01863	.00907	-.11028	.58956	.12595	4.67280
	GRADIENT	-.00262	-.00144	.00029	-.00023	-.00277	.00147	-.01766	-.00146	-.00006	-.00960

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 39/ 0 RN/L = 10.02 GRACIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

ALPHA = 13.000 BOFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 10.000 ELEVON = .000
 AILRON = .000

MACH	BETA	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.237	-6.022	12.84414	.60447	-.01086	.01000	.01429	-.00979	.10395	.59176	.12379	4.78034
.238	-3.981	12.78632	.59388	-.00783	.01760	.00804	-.00603	.06586	.58089	.12380	4.69233
.238	-3.017	12.76338	.58863	-.00596	.02051	.00531	-.00450	.04979	.57540	.12423	4.63165
.237	-1.999	12.72995	.58372	-.00473	.02276	.00243	-.00324	.03227	.57042	.12401	4.59984
.237	-.993	12.71541	.58109	-.00406	.02381	-.00045	-.00149	.01353	.56773	.12394	4.58073
.237	.011	12.72265	.57996	-.00376	.02394	-.00296	-.00058	-.00339	.56655	.12406	4.56665
.237	.999	12.68922	.57748	-.00293	.02361	-.00587	.00126	-.02231	.56402	.12399	4.54891
.238	2.007	12.74772	.57897	-.00330	.02163	-.00866	.00262	-.03971	.56543	.12453	4.54033
.237	3.006	12.74177	.57948	-.00437	.01941	-.01154	.00439	-.05755	.56617	.12355	4.58262
.237	4.016	12.74106	.58138	-.00531	.01572	-.01422	.00599	-.07591	.56823	.12305	4.61807
	GRADIENT	-.00393	-.00151	.00031	-.00022	-.00278	.00149	-.01780	-.00153	-.00007	-.00988

LA61B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(RJ049) (30 JUL 76)

PAGE 53

LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

ALPHA = .000
RUDDER = .000
RN/L = 25.000
AILRON = .000

PARAMETRIC DATA

13.000 BDFLAP = .000
.000 SPDBRK = 25.000
10.000 ELEVON = .000

RUN NO. 139/ 0 RN/L = 10.01 GRACIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.234	-6.009	12.81853	.60904	-.01078	.00800	.01481	-.00933	.10220	.59626	.12461	4.78481
.236	-4.001	12.75554	.59535	-.00774	.01568	.00873	-.00565	.06499	.58236	.12390	4.70010
.235	-3.013	12.72247	.58998	-.00550	.01657	.00604	-.00441	.04833	.57671	.12457	4.62972
.235	-1.891	12.74273	.58610	-.00470	.02092	.00316	-.00302	.03012	.57270	.12469	4.55304
.236	.012	12.73571	.58362	-.00388	.02225	.00231	-.00027	-.00419	.57012	.12488	4.56535
.236	1.003	12.71806	.57994	-.00333	.02163	.00507	.00135	-.02220	.56644	.12443	4.55222
.236	2.018	12.74087	.58126	-.00338	.02021	.00807	.00310	-.04091	.56770	.12490	4.64522
.236	3.003	12.75800	.58459	-.00424	.01732	.01070	.00474	-.05822	.57118	.12457	4.58521
.237	4.021	12.75125	.58347	-.00552	.01373	.01358	.00667	-.07776	.57030	.12339	4.62210
.237	6.022	12.75469	.58713	-.00599	.00953	.01988	.01025	-.11366	.57387	.12419	4.62103
	GRADIENT	-.00108	-.00135	.00027	-.00017	-.00279	.00153	-.01781	-.00137	-.00003	-.01005

LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8M

(RJ050) (30 JUL 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

ALPHA = .000
RUDDER = .000
RN/L = 25.000
AILRON = .000

PARAMETRIC DATA

19.000 BDFLAP = .000
.000 SPDBRK = 25.000
10.000 ELEVON = .000

RUN NO. 40/ 0 RN/L = 9.68 GRACIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.233	-5.977	19.37759	.98000	-.06251	-.00315	.01608	-.00419	.09210	.94523	.26619	3.55094
.232	-4.020	19.29331	.96501	-.06082	.00552	.01051	-.00309	.05985	.93091	.26144	3.56066
.233	-2.999	19.28351	.96316	-.05939	.00733	.00720	-.00322	.04472	.92874	.26202	3.54454
.232	-1.978	19.27041	.96263	-.05913	.00813	.00435	-.00322	.03006	.92821	.26188	3.54441
.232	-.987	19.24855	.96213	-.05892	.00856	.00141	-.00305	.01573	.92777	.26156	3.54707
.232	.000	19.26074	.96272	-.05876	.00785	.00148	-.00209	.00097	.92821	.26210	3.54143
.232	1.001	19.26690	.96000	-.05838	.00764	.00497	-.00086	-.01959	.92549	.26166	3.53699
.232	2.007	19.26267	.96036	-.05831	.00633	.00819	.00017	-.03544	.92583	.26178	3.53671
.232	2.986	19.27143	.96242	-.05808	.00395	.01126	.00089	-.05174	.92597	.26159	3.53983
.232	4.048	19.29447	.96171	-.05973	.00057	.01521	.00339	-.07333	.92742	.26140	3.54795
.232	GRADIENT	-.00047	-.00047	.00014	-.00037	-.00315	.00078	-.01642	-.00049	-.00003	-.00150

LA618 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

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(RJ051) (30 JUL 76)

LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

ALPHA = 19.000 BDFLAP = .000
RUDDER = .000 SPDBRK = 25.000
RN/L = 10.000 ELEVON = .000
AILRON = .000

PARAMETRIC DATA

RUN NO. 140/ 0 RN/L = 9.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.231	-5.994	19.33654	.97963	-.06287	-.00296	.01626	-.00461	.09329	.94519	.26504	3.56616
.232	-4.038	19.29285	.96625	-.05092	.00509	.01053	-.00303	.05966	.93211	.26175	3.56110
.232	-2.991	19.27517	.96564	-.05969	.00729	.00743	-.00311	.04435	.93122	.26242	3.54862
.232	-1.981	19.26381	.96270	-.05916	.00817	.00441	-.00290	.03063	.92832	.26177	3.54831
.232	-.999	19.27114	.96074	-.05884	.00738	.00168	-.00292	.01784	.92632	.26154	3.54183
.232	.000	19.25189	.95913	-.05840	.00729	-.00134	-.00145	.00057	.92475	.26111	3.54158
.231	.997	19.26515	.95083	-.05858	.00763	-.00491	-.00075	-.01837	.92635	.26172	3.53950
.231	1.979	19.26913	.95864	-.05833	.00626	-.00808	-.00013	-.03485	.92418	.26129	3.53694
.232	2.997	19.27743	.95990	-.05890	.00394	-.01125	.00101	-.04885	.92553	.26131	3.54191
.232	4.056	19.29412	.95932	-.05951	.00077	-.01511	.00350	-.07253	.92510	.1081	3.54703
.232	5.980	19.35164	.96713	-.05867	-.00829	-.02179	.00563	-.10930	.93193	.24512	3.51518
	GRADIENT	.00028	-.00088	.00016	-.00051	-.00316	.00077	-.01619	-.00088	-.00013	-.00161

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

ALPHA = .000 BDFLAP = .000
RUDDER = .000 SPDBRK = 25.000
RN/L = 12.500 ELEVON = -10.000
AILRON = .000

PARAMETRIC DATA

(RJ052) (30 JUL 76)

LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8M

RUN NO. 52/ 0 RN/L = 12.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.202	-5.979	19.27925	-.20954	.06427	.10206	.00177	-.00908	.10195	-.20922	.06529	-3.20457
.202	-3.923	19.29480	-.22030	.06758	.10804	.00034	-.00607	.06600	-.21995	.06871	-3.20114
.201	-2.912	19.30095	-.22429	.06866	.11023	-.00001	-.00478	.04960	-.22393	.06964	-3.20628
.201	-1.899	19.30933	-.22875	.06916	.11186	-.00048	-.00368	.03228	-.22837	.07039	-3.24440
.201	-.804	19.31403	-.23266	.06955	.11356	-.00101	-.00225	.01318	-.23228	.07093	-3.27479
.202	.198	19.31781	-.23426	.06954	.11369	-.00146	-.00091	-.00411	-.23389	.07084	-3.30174
.201	1.241	19.31699	-.23571	.06937	.11353	-.00190	.00052	-.02188	-.23532	.07058	-3.32912
.201	2.305	19.32079	-.23518	.06886	.11246	.00229	.00173	-.04010	-.23479	.07018	-3.34553
.201	3.336	19.32026	-.23483	.06780	.11119	-.00273	.00323	-.05696	-.23444	.06911	-3.39230
.201	4.337	19.31760	-.23432	.06683	.10934	-.00323	.00435	-.07401	-.23455	.06813	-3.44259
.201	6.381	19.32270	-.23125	.06366	.10439	-.00433	.00748	-.10927	-.23089	.06496	-3.55429
	GRADIENT	-.00284	-.00170	-.00010	.00015	-.00043	.00127	-.01702	-.00170	-.00008	-.02860

LAG1B (L A C LPT 228) REMOTE ELEVON TABULATED SOURCE DATA
LARC LPT 228(LA61B)B26C9E43F8M16N28R5V8H

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

RUN NO. 50/ 0 RN/L = 12.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.206	-6.048	6.13034	.08661	.05061	.10285	.00649	-.00790	.09982	.08071	.05957	1.35488
.203	-4.047	6.02099	.07088	.05428	.10869	.00331	-.00550	.06523	.06480	.06141	1.05510
.205	-2.956	6.00836	.06553	.05538	.11005	.00160	-.00391	.04674	.06037	.06204	.97301
.206	-2.007	5.98883	.06189	.05578	.11196	.00016	-.00286	.03110	.05573	.06193	.89997
.205	-1.024	5.93701	.05914	.05592	.11274	-.00118	-.00180	.01471	.05298	.06179	.85730
.205	.024	5.96301	.05384	.05638	.11314	-.00270	-.00058	-.00377	.04769	.06167	.77338
.205	1.009	5.95966	.05295	.05654	.11258	-.00401	.00068	-.01957	.04680	.06173	.75812
.205	1.989	5.98001	.05195	.05677	.11131	-.00527	.00154	-.03468	.04575	.06187	.73948
.206	3.320	5.83464	.04556	.05716	.10956	-.00709	.00326	-.05778	.03951	.06150	.64255
.206	4.021	6.03492	.05518	.05604	.10803	-.00812	.00401	-.06973	.04898	.06153	.79614
.206	6.040	6.07004	.05945	.05317	.10343	-.01080	.00674	-.10389	.05349	.05916	.90417
.206	GRADIENT	-.00907	-.00250	.00025	-.00009	-.00140	.00116	-.01664	-.00250	-.00002	-.04028

LARC LPT 228(LA61B)B26C9E43F8M16N28R5V8H

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

RUN NO. 53/ 0 RN/L = 12.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.203	-6.063	12.63621	.41187	.00472	.10041	.01308	-.00783	.09728	.40086	.09471	4.23270
.202	-4.018	12.58621	.40003	.00743	.10801	.00775	-.00462	.06154	.38878	.09448	4.11485
.202	-3.006	12.52843	.39215	.00960	.11105	.00485	-.00397	.04602	.38073	.09444	4.03141
.201	-2.016	12.55605	.38980	.01077	.11339	.00243	-.00277	.02971	.37814	.09526	3.96973
.203	-1.006	12.52503	.38522	.01137	.11416	-.00028	-.00155	.01221	.37359	.09464	3.94748
.203	.013	12.56471	.38357	.01148	.11454	-.00280	-.00068	-.00340	.37188	.09465	3.92906
.202	1.059	12.66732	.38800	.01107	.11367	-.00570	.00054	-.02067	.37614	.09589	3.92256
.203	2.053	12.52603	.38184	.01210	.11259	-.00839	.00171	-.03664	.37012	.09463	3.91124
.203	2.926	12.56384	.38465	.01092	.10968	-.01089	.00239	-.05051	.37305	.09433	3.95476
.203	4.011	12.57402	.38624	.00978	.10713	-.01375	.00422	-.06893	.37485	.09364	4.00329
.202	6.033	12.64579	.39489	.00755	.09958	-.01245	.00706	-.10367	.38366	.09382	4.08937
.202	GRADIENT	.00239	-.00151	.00026	-.00016	-.00267	.00109	-.01625	-.00154	-.00006	-.01371

LA619 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

LARC LTPT 228(LA61B)B26C9C43F8M16N28R5V8W

(RJT055) (30 JUL 78)

REFERENCE DATA

=	2690.0000	SQ.FT.	XMRP	=	1076.7000	IN.	X0
=	474.8000	INCHES	YMRP	=	.0000	IN.	Y0
=	936.6800	INCHES	ZMRP	=	375.0000	IN.	Z0
=	.0150	SCALE					

ALPHA
RUDDER
RN/L
AILRON

19.000	BDFLAP =	.000
.000	SPOBRK =	25.000
12.500	ELEVON =	-10.000
.000		

RUN NO.	54/ 0	RN/L = 12.58	GRADIENT INTERVAL = -5.00/ 5.00
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MACH	BETA	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.203	-6.035	19.31411	.80758	-.04335	.08289	.01337	-.00406	.09184	.77647	.22620	3.43269
.203	-4.007	19.27037	.79470	-.04081	.09219	.00825	-.00335	.05994	.76364	.22375	3.41295
.202	-3.014	19.26218	.78826	-.04015	.09528	.00566	-.00323	.04553	.75738	.22214	3.40954
.204	-2.038	19.24008	.78535	-.03930	.09647	.00313	-.00331	.03048	.75444	.22169	3.40312
.204	-.986	19.24975	.78550	-.03902	.09611	-.00003	-.00282	.01452	.75539	.22246	3.39567
.204	.005	19.25303	.78772	-.03894	.09596	-.00299	-.00192	-.00231	.75650	.22298	3.39273
.204	1.002	19.25631	.78771	-.03893	.09125	-.00658	-.00150	-.01850	.75648	.22303	3.39175
.204	2.023	19.26008	.78742	-.03901	.03322	-.00942	-.00069	-.03448	.75621	.22291	3.39244
.203	2.991	19.24957	.78531	-.03972	.09155	-.01209	-.00007	-.04965	.75450	.22141	3.40774
.203	4.007	19.26349	.78879	-.04125	.08420	-.01501	.00076	-.06671	.75825	.22128	3.42663
.204	6.045	19.31676	.79156	-.04282	.07356	-.02044	.00182	-.09828	.76116	.22143	3.43754
	GRADIENT	.00010	-.00045	-.00000	-.00059	-.00206	.00054	-.01587	-.00042	-.00015	.00039

LARC LIPT 228(LA61B)826C9E43F8M16N28R5VE>

RRJT056) (05 AUG 76)

REFERENCE DATA

=	SREF	=	2690.0000	SO.FT.	YMRP	=	1076.7000	IN. X0
=	LREF	=	474.8000	INCHES	YMRP	=	.0000	IN. Y0
=	BREF	=	936.6800	INCHES	ZMRP	=	375.0000	IN. Z0
=	SCALE	=	.0150					

ALPHA
RUDDER
RN/L

.000	BDFLAP =	.000
.000	SPDBRK =	25.000
12.500	ELEVON =	10.000

RUN NO.	62' 7	RN/L = 12.54	GRADIENT	INTERVAL =	-5.00/	5.00
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[illegible]

LA61B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(RJ1057) (05 AUG 76)

LARC LTPT 228(LA6,31B26C9E43F8M16N28R5V8M

PARAMETRIC DATA

ALPHA = 5.000 BDFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 12.500 ELEVON = 10.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 70/ 0 RN/L = 12.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ELVN-L	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.201	4.964	6.47516	.44409	.05621	-.06492	-.02174	-.00078	.01287	.43492	.10594	4.10548
.202	6.200	6.48704	.45185	.05563	-.06733	-.01817	-.00025	.00972	.44267	.10633	4.16336
.201	7.760	6.47648	.44545	.05283	-.06373	-.01090	-.00017	.00237	.43665	.10274	4.24992
.202	8.969	6.48327	.44868	.05228	-.06492	-.00680	-.00045	-.00006	.43991	.10261	4.28727
.202	9.941	6.48616	.44996	.05178	-.06512	-.00296	.00020	-.00231	.44123	.10228	4.31403
.201	11.016	5.47573	.44457	.05129	-.06238	.00250	.00001	-.00691	.43595	.10110	4.31213
.201	12.048	6.48464	.45038	.05200	-.06483	.00557	.00029	-.00952	.44163	.10254	4.30704
.201	14.065	6.48062	.44787	.05267	-.06394	.01369	.00095	-.01577	.43886	.10286	4.26647
.201	14.858	6.47447	.44275	.05288	-.06177	.01739	.00130	-.02039	.43397	.10247	4.23504
			.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8M

(RJ1058) (05 AUG 76)

PARAMETRIC DATA

ALPHA = 13.000 BDFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 12.500 ELEVON = 10.000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

RUN NO. 71/ 0 RN/L = 12.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ELVN-L	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.201	4.905	13.09404	.79150	.00442	-.07030	-.02635	-.00130	.01704	.76992	.18362	4.19309
.201	5.976	13.09878	.79388	.00331	-.07118	-.02229	-.00090	.01365	.77247	.18314	4.21795
.201	7.912	13.09622	.79187	.00108	-.06947	-.02344	-.00088	.00520	.77102	.18048	4.27210
.202	8.910	13.10058	.79146	.00062	-.06953	-.00674	-.00024	.00119	.77072	.17999	4.28193
.202	9.875	13.09218	.78741	-.00022	-.06741	-.00336	-.00001	-.00297	.76699	.17814	4.30546
.202	10.962	13.08930	.78414	-.00050	-.06462	.00180	.00016	-.00663	.76388	.17709	4.31340
.201	11.838	13.09296	.78958	.00003	-.06839	.00466	.00048	-.01022	.76905	.17889	4.29895
.201	13.975	13.09002	.78767	.00105	-.06719	.01489	.00147	-.02008	.76697	.17941	4.27485
			.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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LA61B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(RJT059) (05 AUG 76)

LARC LTPT 228(LA61B)B26C9E43F8M16N28R5VBW

REFERENCE DATA

=	SREF	=	2690.0000	SQ.FT.	XMRP	=	1076.7000	IN.	XO
=	LREF	=	474.3000	INCHES	YMRP	=	.0000	IN.	YO
=	BREF	=	936.6800	INCHES	ZMRP	=	375.0000	IN.	ZC
=	SCALE	=	.0150						

ALPHA	=	13.000	=	BOFLAP	=	.000
RUDDER	=	.000	=	SPDBRK	=	25.000
RN/L	=	12.500	=	ELEVON	=	10.000

PARAMETRIC DATA

RUN NO.	171/ 0	RN/L = 12.59	GRADIENT INTERVAL = -5.00/ 5.00
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[illegible]

REFERENCE DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1076.7000	IN.	XO
LREF	=	474.8000	INCHES	YMRP	=	.0000	IN.	YO
BREF	=	936.6900	INCHES	ZMRP	=	375.0000	IN.	ZO
SCALE	=	.0150						

ALPHA	=	20.000	BDFLAP	=	.000
RUDDER	=	.000	SPDBRK	=	25.000
RN/L	=	12.500	ELEVON	=	10.000

PARAMETRIC DATA

RUN NO.	72/ 0	RN/L = 12.55	GRADIENT INTERVAL = -5.00/ 5.00
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REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

ALPHA = .000
RUDDER = .000
RN/L = 12.500
BOFLAP = .000
SPDBRK = 25.000
ELEVON = 10.000

PARAMETRIC DATA

RUN NO. 172/ 0 RN/L = 12.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ELVN-L	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.202	5.011	19.82096	1.21206	-.03679	-.09856	-.02194	-.00451	.02138	1.15272	.37637	3.06271
.202	5.957	19.82269	1.21368	-.03774	-.09900	-.01859	-.00413	.01612	1.15456	.37606	3.07012
.202	7.975	19.82118	1.21416	-.03995	-.09769	-.01081	-.00401	.01013	1.15577	.37412	3.08929
.202	9.039	19.82708	1.21795	-.04026	-.09668	-.00668	-.00366	.00791	1.15940	.37523	3.08984
.202	10.034	19.82520	1.21716	-.04078	-.09822	-.00284	-.00369	.00286	1.15885	.37444	3.09491
.202	11.172	19.82946	1.21958	-.04094	-.09773	-.03187	-.00377	-.00209	1.16116	.37519	3.09483
.202	12.089	19.82912	1.21811	-.04002	-.09879	.00537	-.00296	-.00727	1.15947	.37556	3.07732
.202	13.996	19.82375	1.21640	-.03848	-.09878	.01365	-.00233	-.01388	1.15737	.37631	3.07553
.202	14.903	19.82050	1.21485	-.03726	-.09869	.01754	-.00206	-.01884	1.15551	.37687	3.06608
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

LARC LTPT 228(LAS1B)B26C3E43F8M16N28R5V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

ALPHA = .000
RUDDER = .000
RN/L = 12.500
BOFLAP = .000
SPDBRK = 25.000
ELEVON = .000

PARAMETRIC DATA

RUN NO. 59/ 0 RN/L = 12.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ELVN-L	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.209	-5.079	-.29540	-.05547	.06766	.02709	-.02095	-.00422	.01310	-.05612	.05795	-.82586
.208	-4.173	-.29512	-.05660	.06675	.02761	-.01667	-.00383	.01143	-.05625	.06704	-.83908
.208	-2.135	-.29332	-.05580	.06549	.02773	-.00922	-.00196	.00423	-.05546	.06578	-.84316
.209	-1.089	-.28569	-.05059	.06493	.02634	-.00565	-.00096	.00029	-.05026	.06519	-.77107
.208	-.081	-.29340	-.05572	.06452	.02788	-.00149	-.00027	-.00209	-.05538	.06481	-.85458
.208	.956	-.29141	-.05476	.06468	.02823	.00179	-.00006	-.00209	-.05443	.06496	-.83791
.208	1.944	-.29085	-.05434	.06494	.02791	.00535	.00072	-.00647	-.05401	.06521	-.82816
.208	3.899	-.29408	-.05645	.06580	.02867	.01318	.00242	-.01238	-.05611	.06609	-.84905
.208	4.955	-.28930	-.05320	.06660	.02690	.01689	.00317	-.01729	-.05286	.06687	-.79054
	GRADIENT	.00024	.00011	.00001	.00004	.00368	.00074	-.00296	.00011	.00001	.00164

LA618 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8H

(RJ063) (05 AUG 76)

PARAMETRIC DATA

6.000 BOFLAP = .000
.000 SPOBRK = 25.000
12.500 ELEVON = .000

ALPHA =
RUDDER =
RN/L =

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

RUN NO. 62/ 0 RN/L = 12.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ELVN-L	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.200	-5.026	6.23347	.25508	.04686	.02389	-.02221	-.00495	.01578	.24848	.07428	3.34540
.200	-4.062	6.23144	.25426	.04570	.02427	-.01832	-.00411	.0125	.24780	.07303	3.39314
.200	-2.277	6.23353	.25438	.04472	.02430	-.01073	-.00241	.00414	.24772	.07204	3.43861
.200	-1.159	6.23624	.25617	.04432	.02410	-.00661	-.00147	.00231	.24984	.07189	3.47538
.200	-.037	6.24179	.26012	.04418	.02332	-.00264	-.00070	.00187	.25377	.07220	3.51465
.200	1.052	6.23858	.25833	.04419	.02320	-.00155	.00032	-.00576	.25200	.07200	3.49975
.200	2.017	6.23667	.25715	.04424	.02342	.00523	.0118	-.00921	.25083	.07192	3.48776
.200	3.830	6.23574	.25619	.04498	.02381	.01699	.00238	-.01477	.24979	.07254	3.44335
.200	4.824	6.23327	.25476	.04564	.02426	.01699	.00352	-.01870	.24830	.07303	3.39980
.200	5.956	6.23442	.25614	.04637	.02356	.02042	.00441	-.02210	.24959	.07391	3.37694
.200	8.045	6.23444	.25599	.04894	.02380	.02925	.00627	-.03050	.24916	.07645	3.25904
.200	9.843	6.23491	.25682	.05147	.02271	.03627	.00741	-.03756	.24971	.07906	3.15873
.200	GRADIENT	.00022	.00014	.00000	-.00004	.00391	.00084	-.00341	.00014	.00002	.00091

LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8H

(RJ064) (05 AUG 76)

PARAMETRIC DATA

13.000 BOFLAP = .000
.000 SPOBRK = 25.000
12.500 ELEVON = .000

ALPHA =
RUDDER =
RN/L =

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

RUN NO. 63/ 0 RN/L = 12.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ELVN-L	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.200	-5.115	12.80944	.58798	-.00131	.02439	-.02472	-.00570	.01973	.56876	.12797	4.44448
.200	-4.134	12.81059	.58505	-.00228	.02421	-.02091	-.00485	.01676	.57099	.12749	4.47858
.200	-2.376	12.81154	.58571	-.00405	.02500	-.01262	-.00292	.00696	.57203	.12593	4.54230
.200	-.972	12.81246	.58591	-.00484	.02476	-.00684	-.00193	.00159	.57240	.12521	4.57153
.200	-.149	12.80808	.58297	-.00479	.02587	-.00309	-.00073	-.00316	.56953	.12457	4.57213
.200	.906	12.81661	.58734	-.00505	.02371	-.00006	.00005	-.01098	.57402	.12541	4.57709
.200	4.056	12.80305	.59038	-.00328	.02710	.01367	.00330	-.02108	.56639	.12534	4.51866
.200	4.992	12.81242	.58189	-.00264	.02626	.01754	.00448	-.02540	.56799	.12647	4.49116
.200	6.029	12.81461	.58739	-.00200	.02373	.02116	.00536	-.02958	.57321	.12833	4.46673
.200	8.180	12.81127	.58529	.00053	.02348	.03009	.00740	-.03794	.57158	.13052	4.37917
.200	9.818	12.81142	.58703	.00320	.02299	.03756	.00919	-.04561	.57171	.13329	4.28942
.200	GRADIENT	-.00031	-.00052	.00004	.00025	.00415	.00101	-.00457	-.00051	-.00008	-.00114

LA618 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA
LARC LTPT 228(LAS1B)B26C9E43F8M16N28R5V8W

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

ALPHA =
RUDDER =
RN/L =

BOFLAP = .000
SPOBRK = 25.000
ELEVON = .000

PARAMETRIC DATA

RUN NO. 64/ 0 RN/L = 12.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ELVN-L	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.201	-5.173	19.46917	.99382	-.04722	-.00028	-.02356	-.00869	.02696	.95273	.28671	3.32293
.201	-4.426	19.47173	.99175	-.04822	.00110	-.01951	-.00767	.02189	.95110	.28512	3.33574
.201	-2.117	19.47860	.99283	-.04946	.00045	-.01025	-.00448	.01195	.95250	.28443	3.34880
.201	-1.140	19.46910	.99326	-.05016	.00007	-.00616	-.00367	.00553	.95319	.28374	3.35932
.200	-.207	19.46143	.99500	-.05061	.00017	-.00217	-.00243	.00067	.95502	.28379	3.36519
.200	.937	19.45522	.99426	-.05056	-.00062	.00160	-.00131	-.00523	.95433	.28348	3.36643
.200	1.977	19.46594	.99474	-.04998	-.00031	.00588	-.00029	-.00994	.95454	.28437	3.35663
.200	4.000	19.46359	.99291	-.04633	-.00077	.01532	.00223	-.02135	.95227	.28528	3.33803
.201	4.964	19.47973	1.00029	-.04759	-.00301	.01858	.00280	-.02446	.95891	.28870	3.32141
.201	5.824	19.47362	.99710	-.04694	-.00219	.02144	.00364	-.02869	.95567	.28824	3.31550
.201	7.934	19.47569	.99714	-.04383	-.00241	.03081	.00566	-.03850	.95470	.29113	3.27927
.201	9.916	19.46862	.99742	-.04043	-.00173	.03934	.00815	-.04838	.95397	.29431	3.24103
.200	GRADIENT	-.00018	.00058	.00010	-.00034	.00407	.00111	-.00508	.00052	.00029	-.00153

(RJT066) (05 AUG 76)

LARC LTPT 228(LA61B)B26C9E43FBH16N28R5V8H

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

ALPHA = .000 BOFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 12.500 ELEVON = -10.000

PARAMETRIC DATA

RUN NO. 68/ 0 RN/L = 12.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ELVN-L	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.200	-15.008	-54755	-24250	.07158	.10555	-.01790	-.00564	.00813	-.24180	.07390	-3.27207
.200	-14.064	-54903	-24432	.07032	.10598	-.01572	-.00497	.00677	-.24363	.07266	-3.35314
.200	-12.036	-56643	-25624	.06870	.11109	-.00819	-.00247	.00041	-.25555	.07123	-3.58757
.200	-11.006	-56914	-25856	.06856	.11252	-.00481	-.00149	-.00063	-.25786	.07112	-3.62554
.200	-10.365	-57288	-26174	.06862	.11376	-.00331	-.00094	-.00256	-.26104	.07143	-3.65442
.200	-8.992	-57205	-26063	.06886	.11381	.00221	.00021	-.00475	-.25993	.07145	-3.63774
.200	-7.937	-56466	-25599	.06912	.11432	.00595	.00124	-.00680	-.25529	.07164	-3.56343
.200	-5.983	-57132	-26020	.07091	.11415	.01323	.00334	-.01170	-.25948	.07350	-3.53014
.200	-5.073	-56954	-25860	.07191	.11309	.01660	.00426	-.01530	-.25787	.07448	-3.46223
.200	-3.986	-56569	-25108	.07253	.11010	.02016	.00541	-.01610	-.25036	.07498	-3.33881
.200	-2.020	-56082	-24512	.07565	.10747	.02641	.00727	-.02090	-.24438	.07800	-3.13301
.200	.003	-53240	-23103	.07808	.10104	.03253	.00895	-.02540	-.23030	.08023	-2.87051
.200	GRAD IN	00685	00504	.00139	-.00228	.00310	.00089	-.00233	.00504	.00132	.11746

LA61B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA
LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V6W

PARAMETRIC DATA

6.000 BOFLAP = .000
.000 SPARK = 25.000
12.500 ELEVON = -10.000

ALPHA =
RUDDER =
RN/L =

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XU
LREF = +74.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

RUN NO. 67/ 0 RN/L = 12.56 GRACIENT INTERVAL = -5.00/ 5.00

MACH	ELVN-L	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.199	-15.036	5.97651	.06292	.05635	.10550	-.01967	-.00623	.01067	.05671	.06260	.90594
.200	-14.183	5.97171	.05900	.05605	.10770	-.01699	-.00573	.00973	.05285	.05188	.85408
.200	-12.162	5.96548	.05383	.05523	.11043	-.00991	-.00303	.00271	.04780	.06052	.78980
.200	-11.020	5.96511	.05352	.05477	.11087	-.00613	-.00213	-.00024	.04754	.06004	.79190
.200	-10.104	5.96647	.05448	.05492	.11086	-.00243	-.00040	-.00378	.04847	.06029	.80405
.200	-9.031	5.96532	.05346	.05488	.11118	.00122	.00016	-.00655	.04745	.06014	.78921
.200	-7.980	5.96881	.05622	.05473	.10986	.00412	.00111	-.00877	.05022	.06028	.83312
.200	-6.019	5.96729	.05493	.05622	.11059	.01300	.00372	-.01603	.04879	.06163	.79168
.200	-5.356	5.96313	.05239	.05729	.11138	.01561	.00479	-.02013	.04616	.06242	.73948
.200	-4.017	5.97327	.05975	.05774	.10837	.01980	.00619	-.02199	.05342	.06365	.83927
.200	-2.028	5.98539	.06889	.06069	.10356	.02647	.00858	-.02992	.06219	.06755	.92064
.200	-.096	6.00292	.08239	.06362	.09773	.03312	.01081	-.03476	.07528	.07188	1.04725
GRACIENT		.00755	.00577	.00150	-.00271	.00340	.00118	-.00326	.00557	.00210	.05298

ORIGINAL PAGE IS
OF POOR QUALITY

(RJTO68) (05 AUG 76)

LARC LTPT 228(LAS18)B26C9E113F8M16N28R5VB4

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

ALPHA = .000
 RUDDER = 25.000
 RN/L = -10.000

PARAMETRIC DATA

13.000 BDFLAP = .000
 .000 SPDBRK = 25.000
 12.500 ELEVON = -10.000

RUN NO. 66/ 0 RN/L = 12.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ELVN-L	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.200	-15.082	12.53080	.38457	.01215	.10999	-.02202	-.00781	.01638	.37277	.09529	3.91184
.199	-14.174	12.52698	.38310	.01145	.11057	-.01917	-.00695	.01356	.37150	.09428	3.94018
.199	-12.011	12.52324	.38036	.01043	.11265	-.01045	-.00350	.00246	.36905	.09266	3.98285
.199	-11.081	12.52017	.37728	.01041	.11295	-.00699	-.00234	-.00075	.36805	.09195	3.98109
.199	-10.229	12.52119	.37869	.01020	.11418	-.00353	-.00115	-.00329	.36747	.09206	3.99171
.200	-9.073	12.52288	.37778	.01030	.11423	.00107	.00025	-.00708	.36655	.09197	3.98552
.200	-8.033	12.52326	.37822	.01056	.11375	.00503	.00181	-.01184	.36593	.09232	3.97438
.199	-6.098	12.51987	.37783	.01212	.11426	.01407	.00508	-.02025	.36622	.09373	3.90713
.199	-5.076	12.52123	.37905	.01264	.11337	.01677	.00641	-.02548	.36729	.09451	3.88617
.199	-4.156	12.53149	.38566	.01290	.11014	.02061	.00756	-.02796	.37370	.09618	3.88553
.200	-1.939	12.53600	.38890	.01572	.10786	.02854	.01069	-.03660	.37622	.09975	3.77145
.199	-.162	12.54942	.40070	.01863	.10206	.03516	.01307	-.04453	.38703	.10545	3.67036
	GRADIENT	.00439	.00567	.00150	-.00198	.00364	.00138	-.00414	.00325	.00229	-.05378

LAS1B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA
LARC LTPT 228(LAS1B)B26C3E43FBM16N28R5V8N

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO ALPHA = 19.000 BDFLAP = .000
LREF = 474.8000 INCHES YMRP = .0000 IN. YO RUDDER = 25.000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RN/L = 12.500 ELEVON = -10.000
SCALE = .0150

PARAMETRIC DATA

RUN NO. 65/ 0 RN/L = 12.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ELVN-L	ALPHA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.201	-15.059	19.18337	.77941	-.03598	.09220	-.02295	-.00980	.02095	.74796	.22213	3.36722
.201	-14.006	19.18826	.78291	-.03721	.09123	-.01984	-.00871	.01812	.75164	.22218	3.38308
.201	-12.082	19.18567	.77915	-.03819	.09333	-.01149	-.00514	.00716	.74842	.21998	3.40222
.200	-11.187	19.17939	.77921	-.03845	.09419	-.00760	-.00430	.00234	.74859	.21968	3.40766
.201	-10.117	19.18575	.78177	-.03879	.09260	-.00351	-.00249	-.00207	.75110	.22028	3.40974
.200	-9.059	19.17729	.77836	-.03856	.09411	.00073	-.00049	-.00677	.74784	.21927	3.41062
.200	-8.067	19.18210	.78140	-.03952	.09323	.00480	.00057	-.01137	.75068	.22036	3.40653
.200	-6.008	19.18226	.78064	-.03704	.09269	.01444	.00427	-.02211	.74947	.22152	3.38339
.200	-5.152	19.18421	.78244	-.03668	.09176	.01679	.00485	-.02482	.75104	.22247	3.37596
.200	-4.227	19.17975	.77893	-.03521	.09220	.02099	.07675	-.03005	.74730	.22255	3.35782
.201	-2.110	19.18297	.78061	-.03242	.09182	.02947	.00993	-.03956	.74792	.22587	3.31123
.200	-0.30	19.18803	.78604	-.02934	.08814	.03671	.01231	-.04936	.75202	.23063	3.26067
	GRADIENT	.00197	.00169	.00142	-.00097	.00375	.00133	-.00460	.00112	.00192	-.02314

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
RUDDER = .000 SPOBRK = 25.000
RN/L = 2.000 ELEVON = .000
AILRON = .000

RUN NO. 80/ 0 RN/L = 1.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB	CPB2	CP33	O(PSF)	RN/L
.291	-2.282	-.03421	-.16564	-.2570	-.20207	-.23925	125.30374	1.95800
.290	-1.248	-.03732	-.18321	-.24872	-.20276	-.23765	124.97140	1.94599
.290	-.245	-.03110	-.16313	-.24711	-.20145	-.23679	124.37250	1.94834
.290	.960	-.04044	-.16564	-.25028	-.20162	-.23504	123.75564	1.94227
.290	1.862	-.04199	-.16313	-.24969	-.20324	-.23433	124.14405	1.94463
.292	3.870	-.03421	-.16062	-.24854	-.20372	-.23334	125.08920	1.95127
.291	5.969	-.03266	-.16313	-.24725	-.20423	-.23559	124.30743	1.94512
.290	7.947	-.02644	-.15560	-.25196	-.20769	-.23433	123.86482	1.94095
.292	10.104	-.03888	-.16313	-.26340	-.21498	-.23938	125.07085	1.94918
.292	11.067	-.04199	-.16564	-.25460	-.21198	-.24166	125.35676	1.95030
.293	12.034	-.03577	-.15560	-.25397	-.21323	-.24872	125.92542	1.95548
.293	12.290	-.03421	-.16564	-.25192	-.21498	-.24746	125.90030	1.95580
.293	13.080	-.03732	-.16062	-.25631	-.21558	-.24942	125.82615	1.95495
.293	14.097	-.03421	-.16313	-.25853	-.21937	-.25656	125.67440	1.95371
.292	14.810	-.03888	-.16313	-.25741	-.22120	-.26225	125.27113	1.95131
.292	15.138	-.03732	-.17056	-.26117	-.22258	-.26349	125.27537	1.95113
.293	16.255	-.03577	-.16313	-.26244	-.22590	-.26987	126.16921	1.95877
.295	17.232	-.02955	-.16313	-.27237	-.23406	-.27815	127.71674	1.97091
.294	18.238	-.03266	-.16313	-.28748	-.24307	-.30283	126.91849	1.96420
.293	19.297	-.03577	-.16313	-.30126	-.24834	-.31731	126.04311	1.95758
.292	20.303	-.04666	-.17317	-.31752	-.25685	-.33163	125.02839	1.95073
.291	21.310	-.04821	-.16062	-.33572	-.26649	-.34406	124.56507	1.94730
.291	22.455	-.06843	-.16815	-.36100	-.27439	-.36836	124.73825	1.95101
	GRADIENT	-.00343	.00198	.00323	-.00025	.00098	-.00957	-.00084

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150
BCTA = .000 BDFLAP = .000
RUDDER = .000 SPOBRK = 25.000
RN/L = 2.000 ELEVON = .000
AILRON = .000

PARAMETRIC DATA

RUN NO. 22/ 0 RN/L = 2.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	A.LPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.150	-2.257	-.00776	.19304	-.26320	-.22558	-.24002	63.33857	2.01064
.150	-1.290	-.00933	.19304	-.27014	-.22571	-.23676	62.98287	2.00884
.150	-.726	-.00467	.19805	-.26113	-.22355	-.23466	63.22191	2.01400
.150	.720	-.00622	.19304	-.25330	-.22465	-.23449	63.10618	2.01348
.150	1.793	-.01089	.19805	-.25661	-.22462	-.23351	63.42187	2.01768
.150	3.855	-.00156	.19304	-.25673	-.22572	-.23202	62.99120	2.01172
.150	5.817	-.00467	.19805	-.26442	-.22660	-.23174	63.27956	2.01695
.150	7.899	-.01244	.19555	-.26207	-.23205	-.23502	62.79369	2.00532
.150	9.912	-.00622	.19555	-.28334	-.23632	-.23662	62.74083	2.00841
.150	11.003	-.00778	.20056	-.27888	-.23801	-.23933	63.14762	2.01494
.150	11.956	-.00778	.19304	-.26885	-.23705	-.24732	63.03655	2.01360
.150	13.227	-.03577	-.12298	-.27917	-.24155	-.25000	63.15866	2.01555
.150	13.990	-.02955	-.10290	-.27322	-.24561	-.25468	62.84799	2.01150
.150	15.070	-.03732	-.11545	-.27323	-.24932	-.25915	62.99997	2.01423
.150	16.050	-.04044	-.11545	-.28515	-.24896	-.26526	63.24090	2.01680
.150	17.059	-.03732	-.12047	-.28386	-.25282	-.27377	63.33959	2.01891
.150	18.073	-.04044	-.11.96	-.29318	-.25241	-.27956	63.09876	2.01508
.151	20.264	-.03732	-.12549	-.32731	-.28536	-.31866	63.67135	2.02476
.151	22.195	-.03577	-.11545	-.34997	-.28529	-.35304	63.59733	2.02296
GRADIENT		.00075	.00014	.00181	.00011	.00118	-.01951	.00062

LAG1B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT003) (30 JUL 76)

LARC LTPT 228(LA61B)826C5E43F8M16N2B85V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPDRK = 25.000
 RN/L = 2.500 ELEVON = .000
 AILRON = .000

RUN NO.	21/ 0	RN/L =	2.45	GRADIENT	INTERVAL =	-5.00/	5.00	
ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	O(PSF)	RN/L	
-2.315	.00155	-.01757	-.26887	-.21766	-.24140	178.40424	2.49315	
-1.201	.00932	-.00253	-.26737	-.21741	-.24037	176.95437	2.48039	
-.162	.00466	-.00253	-.26697	-.21688	-.23796	176.81881	2.47497	
.792	.01088	-.01757	-.26283	-.21714	-.23767	177.98888	2.47608	
1.817	-.00156	-.01004	-.26319	-.21564	-.23447	178.40063	2.47360	
3.858	.00155	-.00251	-.26390	-.21865	-.23723	178.86246	2.47322	
5.902	-.00311	-.00753	-.26178	-.21927	-.23790	178.20792	2.46576	
8.001	.00466	.02256	-.27652	-.22176	-.23645	179.31240	2.47067	
10.056	-.00467	.01755	-.28702	-.22755	-.24270	178.04031	2.45807	
12.125	-.00933	.01504	-.27678	-.22891	-.24863	177.71416	2.45403	
14.182	.00777	.00752	-.28201	-.23661	-.25897	179.53556	2.46342	
16.271	-.00933	.01755	-.28499	-.24402	-.27590	177.55562	2.44772	
17.370	-.00311	.01504	-.30701	-.25445	-.28782	177.90636	2.44474	
18.391	-.03577	.05014	-.32009	-.26635	-.30848	177.71869	2.44090	
19.442	-.02799	.04513	-.33769	-.27019	-.32574	177.87099	2.44109	
20.572	-.04044	.08022	-.34014	-.27798	-.34295	179.45577	2.45018	
22.561	-.03577	.13287	-.35958	-.28998	-.37495	179.56249	2.44827	
GRADIENT	-.00066	.00162	.00163	-.00006	.00086	.19812	-.00275	

LASIB (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA
LARC LTPT 228(LASIB)B26C3E43F8M16N28R5VBH

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
RUDDER = .000 SPOBRK = 25.000
RN/L = 3.500 ELEVON = .030
AILRON = .000

RUN NO. 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CP31	CPB2	CPB3	Q(PSF)	RN/L
.300	-2.325	.11791	-.09530	-.25576	-.21922	-.24630	219.94595	3.53785
.299	-1.278	.11635	-.11787	-.25667	-.21933	-.24282	219.64977	3.52979
.300	-.252	.10394	-.11787	-.25709	-.21892	-.24308	220.68126	3.53442
.299	.791	-.03568	-.11787	-.25327	-.21949	-.24246	220.15790	3.52676
.300	1.757	-.03723	-.12288	-.25654	-.21923	-.24168	220.63376	3.52424
.300	3.695	-.03568	-.12038	-.25016	-.21880	-.24307	221.72358	3.53104
.299	6.052	-.02947	-.12288	-.25266	-.21984	-.24182	220.73150	3.52002
.301	8.026	-.02947	-.12038	-.25220	-.22159	-.24240	222.88228	3.53509
.300	10.121	-.02792	-.12038	-.25366	-.22567	-.24917	223.23685	3.53507
.300	11.160	-.02792	-.11787	-.27274	-.22738	-.25133	223.11745	3.53155
.300	12.250	-.01861	-.11285	-.27409	-.23043	-.25152	222.03014	3.52362
.300	13.231	-.00931	-.12288	-.27609	-.23394	-.26143	222.74373	3.52461
.300	14.282	-.01861	-.11285	-.28171	-.23658	-.26297	222.97171	3.52421
.299	15.499	-.01551	-.11787	-.28331	-.24325	-.27101	221.79363	3.51665
.299	16.494	-.02637	-.12288	-.28237	-.24660	-.27694	221.82946	3.51353
.299	17.421	-.03723	-.12539	-.29494	-.25072	-.28682	222.21794	3.51744
.300	18.548	-.01396	-.14044	-.30188	-.25668	-.29851	223.23353	3.51977
.301	19.545	-.04964	-.11787	-.31710	-.26476	-.31408	225.08658	3.53357
.300	20.605	-.04343	-.10784	-.32503	-.26757	-.33216	223.64836	3.52108
.300	21.671	-.08825	-.09781	-.34569	-.27728	-.35306	223.74406	3.51835
.298	23.167	-.08221	-.04514	-.35700	-.30048	-.37493	220.91686	3.49402
GRADIENT		-.03138	-.00312	.00145	.00005	.00042	.28649	-.00119

ORIGINAL PAGE IS
OF POOR QUALITY

LARC LTPT 228(LA61B)B26C9I:43F8M16N28R5V8W

PARAMETRIC DATA:

BETA	=	2.000	BOFLAP	=
RUDDER	=	.000	SPDBRK	=
RN/L	=	3.500	ELEVON	=
AILRON	=	.000		

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	O (PSF)	RN/L
.301	-.029	-.0357	-.03511	-.28706	-.22306	-.23830	226.57270	3.53680
.300	1.894	-.0357	-.0357	-.28843	-.22465	-.23777	226.00817	3.52235
.298	3.923	-.03723	-.04013	-.28541	-.22562	-.24033	224.18007	3.50527
.299	5.971	-.03723	-.04765	-.28662	-.22783	-.24065	225.40305	3.51283
.298	8.075	-.04343	-.03511	-.28410	-.22967	-.24202	224.89171	3.50963
.300	10.119	-.03568	-.02006	-.29309	-.23295	-.24619	226.93732	3.52074
.299	11.181	-.03568	-.01755	-.29052	-.23306	-.24977	226.28863	3.51397
.300	12.230	-.02637	-.01505	-.29836	-.23708	-.25500	227.03301	3.51486
.300	13.277	-.02637	-.01505	-.29603	-.24136	-.25755	227.75396	3.51866
.299	14.309	-.02172	-.01254	-.30026	-.24510	-.26353	225.86310	3.50332
.298	15.391	-.02792	-.01254	-.30737	-.24896	-.26564	225.40080	3.49933
.298	16.413	-.02637	-.00251	-.30450	-.25222	-.27240	225.50103	3.49780
.298	17.445	-.03412	-.01254	-.30580	-.25559	-.28061	225.10982	3.49352
.297	18.492	-.02016	-.00502	-.31819	-.26085	-.29597	224.49625	3.48750
.296	19.556	-.02792	-.00502	-.32955	-.26573	-.31316	222.04194	3.46983
.300	20.582	-.02792	-.02006	-.32823	-.27017	-.32682	227.92953	3.51211
GRADIENT		-.00119	-.00126	-.00043	-.00065	-.00052	-.60813	-.00798

LAS1B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8000 INCHES
UREF = 936.6800 INCHES
SCALE = .0150

XMRP = 1076.7000 IN. X0
YMRP = .0000 IN. Y0
ZMRP = 375.0000 IN. Z0

PARAMETRIC DATA

BETA = -2.000 BDFLAP = .000
RUDDER = .000 SPOBRK = 25.000
RN/L = 3.500 ELEVON = .000
AILRON = .000

RUN NO. 4/ 0 RN/L = 3.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.301	-.013	-.02327	.08527	-.24032	-.21557	-.25540	229.21089	3.54142
.300	1.894	-.01551	.08778	-.23918	-.21514	-.25392	229.30110	3.52978
.301	3.937	-.01241	.08778	-.24167	-.21653	-.25681	229.72011	3.53567
.299	5.975	-.01706	.08778	-.23883	-.21675	-.25953	227.94898	3.51935
.299	8.082	-.03568	.09781	-.24154	-.22078	-.26901	226.96218	3.51182
.298	10.154	-.03102	.09028	-.24266	-.22509	-.27594	226.81415	3.51007
.298	11.191	-.03568	.08025	-.24852	-.22820	-.28514	226.66957	3.50442
.297	12.233	-.04033	.07774	-.24921	-.22992	-.28260	225.60560	3.49314
.297	13.264	-.03878	.08527	-.25362	-.23196	-.27751	225.13134	3.48759
.297	14.319	-.03878	.08276	-.26393	-.23482	-.27782	225.08005	3.48551
.297	15.374	-.03568	.10784	-.26295	-.23762	-.27937	225.56557	3.48447
.296	16.394	-.02792	.09330	-.26910	-.24330	-.28705	224.49194	3.47649
.295	17.513	-.02327	.09028	-.28018	-.24917	-.29417	223.75729	3.46840
.294	18.530	-.02016	.11035	-.28660	-.25452	-.30552	222.64340	3.45881
.293	19.636	-.02016	.10533	-.30641	-.26254	-.32251	220.74868	3.44206
.291	20.589	-.02327	.11536	-.32354	-.27169	-.33909	218.67029	3.42857
	GRADIENT	.00273	.00063	-.30035	-.00025	-.00037	.13563	-.00140

LASIB (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT007) (30 JUL 76)

LARC LTPT 228(LASIB)B26C9E43F8M16N28R5V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPDRK = .25.000
 RN/L = 4.000 ELEVON = .000
 AIRLON = .000

MACH	ALPHA	ELVN-L	ELVN-R	CPRI	CPB2	CPB3	O(PSF)	RN/L
.289	-2.349	-.06376	.01504	-.25952	-.21836	-.24422	257.29422	4.00271
.289	-1.315	-.03888	-.03514	-.26129	-.21808	-.24143	256.82588	3.99075
.288	-.275	-.03732	-.01004	-.26544	-.21684	-.24105	255.76534	3.98137
.289	.786	-.03732	-.01255	-.25824	-.21855	-.24099	257.43449	3.99482
.288	1.869	-.03732	-.00753	-.25471	-.21735	-.24131	255.78954	3.98063
.287	3.899	-.03421	-.01004	-.26185	-.22104	-.24116	254.61416	3.97165
.289	5.995	-.03110	-.00251	-.25964	-.21967	-.24090	256.76724	3.98845
.288	8.108	-.03732	.00000	-.25825	-.22181	-.24190	256.16273	3.98249
.289	10.264	-.04044	.02256	-.26513	-.22402	-.24266	256.65520	3.98558
.289	11.235	-.04821	.02256	-.26661	-.22782	-.24658	256.55866	3.98453
.287	12.309	-.05910	.03008	-.26880	-.22806	-.25206	254.70876	3.97047
.288	13.307	-.05754	.04262	-.26706	-.23186	-.25701	256.37844	3.98176
.288	14.355	-.04977	.16062	-.26996	-.23653	-.26276	256.07257	3.97766
.288	15.417	-.03577	.15811	-.27781	-.24075	-.26778	255.88453	3.97737
.288	16.502	-.03732	.16062	-.27856	-.24510	-.27517	254.95476	3.96885
.288	17.563	-.04044	.15811	-.28155	-.24964	-.28635	256.21235	3.97888
.287	18.573	-.03732	.16313	-.28481	-.25151	-.30059	254.69113	3.96683
.269	19.549	-.06065	.16062	-.29562	-.25558	-.32223	257.15483	3.98590
.289	20.697	-.09642	-.22336	-.30986	-.25929	-.33530	257.93135	3.98965
.290	21.759	-.10109	-.20329	-.33700	-.26686	-.35759	258.61977	3.99227
.290	22.856	-.07776	-.17066	-.36144	-.27879	-.37702	258.89448	3.99631
		.00342	-.00091	-.00002	-.00037	.00034	-.37190	-.00415

GRADIENT

LARC LTPT 228(LAS1B)B26C3E43F8M16N28R5V8

(AJT007) (30 JUL 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LPEF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUOGER = .000 SPOBRK = 25.000
 RN/L = 4.000 ELEVON = .000
 AILRON = .000

RUN NO. 5/ 0 RN/L = 4.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CP3	CPB2	CPB3	Q(PSF)	RN/L
.349	-2.364	.00620	.19562	-.27518	-.22108	-.24757	306.32208	4.06270
.349	-1.305	.00310	.19060	-.27278	-.22123	-.24453	306.79482	4.05994
.350	-.278	.01241	.19311	-.27093	-.22130	-.24456	308.30996	4.06684
.350	.730	.01332	.19060	-.27076	-.22006	-.24407	308.69622	4.06411
.350	1.809	.02637	.19060	-.25695	-.22192	-.24183	308.07451	4.05860
.348	3.897	.03948	.17806	-.25756	-.22369	-.24461	306.15174	4.03832
.349	6.020	.03793	.19060	-.26343	-.22268	-.24493	308.23633	4.04585
.351	8.120	.00155	.19311	-.25303	-.22386	-.24861	311.10298	4.05862
.352	10.335	.01396	.19812	-.26698	-.22776	-.25672	312.66366	4.06603
.350	11.357	.02637	.16557	-.27733	-.23120	-.25080	311.07886	4.05139
.349	12.313	.00465	.19812	-.27499	-.23245	-.25673	304.12148	4.03574
.349	13.413	.00465	.19812	-.28474	-.23713	-.26076	309.12759	4.03309
.349	14.514	.00465	.18057	-.28758	-.25684	-.26800	309.75199	4.03636
.349	16.565	.00931	.14797	-.29895	-.26763	-.28271	310.30690	4.03275
.349	17.631	.01241	.17806	-.29755	-.27218	-.29262	310.18553	4.03108
.351	18.737	.01241	.18057	-.31026	-.28145	-.30892	314.20783	4.05062
.350	20.907	.01396	.20063	-.33924	-.29437	-.34962	313.64396	4.03943
.349	21.934	.05429	.19812	-.35205	-.30153	-.36310	311.09511	4.01984
.352	23.048	.10082	.20565	-.37656	-.31041	-.38790	317.41785	4.04896
	GRADIENT	.00629	-.00234	.00126	-.00037	.00048	.01764	-.00348

LASIB (LARC LIPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT008) (30 JUL 78)

LARC LIPT 228(LASIB)B26C9E43F8M16N28K5V8H

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPDRK = 25.000
 RN/L = 4.000 ELEVON = .000
 AILRON = .000

RUN NO. 28/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.150	-2.334	-.12753	-.05270	-.26443	-.22500	-.24752	139.07044	4.03491
.150	-1.310	-.11509	-.04016	-.26837	-.22562	-.24702	138.98208	4.03810
.149	-.242	-.12597	-.04016	-.26201	-.22704	-.24409	135.59020	3.99112
.149	.783	-.12597	-.03514	-.26532	-.22755	-.24433	136.82403	4.01167
.150	1.820	-.12442	-.02761	-.27491	-.22500	-.23878	138.20262	4.03241
.151	3.984	-.13375	-.01757	-.26540	-.22861	-.24151	138.97818	4.04406
.149	5.861	-.12908	-.01506	-.26375	-.23094	-.24152	136.83282	4.01578
.150	7.935	-.13841	-.01757	-.27093	-.22794	-.23823	137.86048	4.03204
.150	10.186	-.12908	-.01255	-.27160	-.23465	-.24040	136.30185	4.04156
.149	11.007	-.12753	-.01804	-.28044	-.23547	-.24553	137.82646	4.01034
.150	12.044	-.13064	-.01255	-.28559	-.23794	-.24553	137.82646	4.03504
.150	13.066	-.12286	-.01506	-.29754	-.24080	-.25323	137.80680	4.03606
.150	14.142	-.13530	-.00753	-.28300	-.24551	-.25981	137.04739	4.02708
.150	15.182	-.13064	-.01004	-.29456	-.24943	-.26319	137.09074	4.02773
.150	16.346	-.13686	-.00753	-.30438	-.25450	-.27407	137.22597	4.03132
.150	17.170	-.14774	-.00753	-.29580	-.25690	-.27994	136.49493	4.01905
.150	18.646	-.14619	-.00752	-.32381	-.26592	-.29189	137.25926	4.03053
.150	19.374	-.13696	-.00251	-.30667	-.26543	-.27446	137.88078	4.04170
.150	20.315	-.15241	-.01255	-.31537	-.26717	-.30939	137.34050	4.03394
.150	21.327	-.14463	-.01704	-.31971	-.26865	-.32898	136.55524	4.02515
.149	22.378	-.14463	-.00502	-.35505	-.27379	-.35860	135.33419	4.00561
GRADIENT		-.00156	.00518	-.00050	-.00043	.00120	.01170	.00178

REFERENCE DATA

SREF = 2690.0006 SO.FT. XMRP = 1076.7000 IN. XO BETA = .000 BDFLAP = .000
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO RUDDER = .000 SPOBRK = 25.000
 BRFF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RN/L = 4.000 ELEVON = .000
 SCALE = .0150 AIRLON = .000

PARAMETRIC DATA

RUN NO. 25/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.200	-2.306	-.07309	-.04768	-.27355	-.22063	-.24469	175.30879	3.99472
.200	-1.287	-.05288	-.03263	-.26903	-.21916	-.24293	176.50337	4.00753
.200	-.242	-.05754	-.01507	-.27066	-.21005	-.24482	175.93451	4.00165
.200	.806	-.06998	-.01757	-.26514	-.21871	-.24268	175.87496	4.00145
.200	1.785	-.06843	-.02259	-.27398	-.21943	-.23887	176.18625	4.00575
.199	4.052	-.06843	-.02259	-.26239	-.22449	-.24071	174.76227	3.98961
.199	5.869	-.08398	-.01506	-.26345	-.21864	-.24174	174.90373	3.99125
.200	8.149	-.06587	-.00252	-.25619	-.22123	-.24274	175.58987	3.99866
.200	10.060	-.05754	-.10792	-.27484	-.22917	-.24859	175.85280	4.00180
.200	11.132	-.05910	-.10290	-.27726	-.22607	-.24505	175.73150	4.00094
.200	12.189	-.05754	-.09537	-.28015	-.23130	-.24938	175.51554	3.99624
.200	13.137	-.06999	-.10541	-.28555	-.23701	-.25175	175.16594	3.99164
.200	14.214	-.06065	-.09285	-.29148	-.23992	-.25690	175.20451	3.99259
.199	15.218	-.06697	-.08533	-.29590	-.24567	-.27069	174.22746	3.98151
.200	16.355	-.07309	-.09788	-.30142	-.25021	-.27317	176.25027	4.00655
.200	17.349	-.07154	-.10039	-.30997	-.25266	-.27898	175.62502	3.99706
.200	18.316	-.07620	-.10541	-.30536	-.25481	-.28594	175.17320	3.99340
.199	19.295	-.07309	-.10792	-.32235	-.26042	-.30483	174.16679	3.97990
.200	20.423	-.06532	-.10792	-.31746	-.26275	-.31009	176.14139	4.00336
.200	21.452	-.04020	-.11294	-.33648	-.26398	-.33934	175.62570	3.99742
.200	22.507	-.07770	-.10792	-.35321	-.26806	-.36321	176.12639	4.00072
GRADIENT		-.00087	.00322	.00125	-.00054	.00075	-.12138	-.00111

ORIGINAL PAGE IS
 OF POOR QUALITY

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 4.000 ELEVON = .000
 AILRON = .000

RUN NO. 24/ 0 RN/L = 4.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	O(PSF)	RN/L
.250	-2.394	-.06687	-.07780	-.26714	-.21913	-.24184	218.99057	4.02540
.250	-1.380	-.07154	-.06525	-.26875	-.21997	-.24170	219.18810	4.02834
.250	-.270	-.07309	-.06274	-.26780	-.21932	-.24426	218.93291	4.02391
.250	.777	-.07309	-.06525	-.26814	-.21895	-.24182	218.36847	4.01939
.250	1.791	-.06687	-.06274	-.27142	-.22179	-.24071	218.55524	4.01983
.250	3.843	-.07154	-.06023	-.28235	-.22142	-.24033	218.48038	4.01702
.249	5.915	-.06998	-.06323	-.26938	-.22274	-.24116	217.19264	4.00320
.249	8.067	-.07309	-.05772	-.26363	-.22322	-.24556	217.89981	4.00820
.250	10.128	-.05998	-.06023	-.27727	-.22912	-.4595	218.36508	4.01164
.249	11.146	-.05754	-.06274	-.27845	-.23094	-.24729	217.55986	4.00319
.248	12.181	-.06532	-.06023	-.28214	-.23466	-.25417	216.30837	3.98976
.246	13.662	-.07932	-.07027	-.26803	-.23801	-.26219	216.05853	3.98606
.248	14.263	-.04399	-.05023	-.29625	-.24215	-.26093	216.071	3.98416
.250	15.429	-.08709	-.05772	-.30452	-.24643	-.26972	219.42807	4.01461
.251	16.541	-.09353	-.06023	-.31050	-.25169	-.27170	220.70994	4.02559
.250	17.870	-.08709	-.05772	-.31112	-.25312	-.28744	218.70931	4.00605
.249	18.465	-.06387	-.05772	-.29832	-.25843	-.29092	217.97883	3.99716
.250	19.503	-.09027	-.05270	-.30737	-.25854	-.30646	219.93726	4.01431
.251	20.552	-.09042	-.05270	-.32426	-.26379	-.32932	220.58226	4.01982
.250	21.727	-.10109	-.07027	-.34591	-.26493	-.35999	216.59774	3.99934
.250	22.688	-.10575	-.05772	-.35746	-.27475	-.3931	221.46875	4.02609
.251	GRADIENT	-.00024	.00214	-.00027	-.00039	.00032	-.11452	-.00170

L4619 (LARC LPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT008) (30 JUL 76)

LARC LPT 228(L4619)B26C9E43F8M16428R5V8W

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 4.000 ELEVON = .000
 AILRON = .000

RUN NO 23/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.0' 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	O(PSF)	RN/L
.300	-2.337	-.02488	-.13552	-.26863	-.21939	-.24561	254.90939	4.01086
.300	-1.305	-.00933	-.13050	-.26969	-.21935	-.24384	255.05196	4.01868
.300	-.266	-.00622	-.1301	-.26535	-.21792	-.24260	255.80337	4.01288
.300	.952	-.015	-.13050	-.27467	-.21842	-.23996	255.33267	4.00867
.300	1.797	-.018	-.12549	-.26791	-.22210	-.24013	256.14960	4.01573
.299	3.861	-.01244	-.12549	-.27103	-.22039	-.23944	256.59142	4.02425
.300	6.040	-.01244	-.12800	-.26718	-.22113	-.24042	257.17988	4.01558
.300	8.077	-.02022	-.12549	-.26384	-.22103	-.24345	256.22345	4.00805
.301	10.140	-.00933	-.12549	-.27442	-.22627	-.24680	257.76530	4.01346
.301	11.205	-.01865	-.12047	-.275	-.22970	-.24885	257.61610	4.00926
.300	12.228	-.01089	-.13301	-.2884	-.23244	-.25143	257.24909	4.00694
.301	13.318	-.01555	-.12549	-.29020	-.23526	-.25416	257.86229	4.00894
.301	14.369	-.02265	-.13050	-.29959	-.23872	-.25360	257.83731	4.00575
.301	15.413	-.02622	-.12549	-.29981	-.24377	-.26900	259.15431	4.01447
.301	16.435	-.02488	-.12549	-.30635	-.25039	-.27638	258.22670	4.00731
.301	17.493	-.03577	-.13050	-.30623	-.25507	-.28407	258.43181	4.00631
.302	18.570	-.04510	-.13803	-.30504	-.25762	-.29977	260.17860	4.01551
.301	19.537	-.07405	-.13552	-.31204	-.26142	-.31140	259.02551	4.00571
.301	20.714	-.10420	-.09788	-.33483	-.26510	-.33627	258.64077	3.99691
.301	22.784	-.09553	-.07786	-.37417	-.30575	-.37712	259.47569	4.00293
	GRADIENT	.30253	.00158	-.00043	-.00031	.00104	.13845	.00143

LASIB (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT009) (30 JUL 76)

LARC LTPT 228(1 A618)B26C9E43F8M16N28R5V8W

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.5000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPOSRK = 25.000
 RN/L = 5.000 ELEVON = .000
 AIRLON = .000

RUN NO. 78/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	O(PSF)	RN/L
.288	-2.277	-.01400	-.18070	-.26441	-.23442	-.24436	322.17552	4.98854
.296	-1.337	-.01856	-.17819	-.26177	-.23261	-.24418	318.31478	4.98042
.289	-.293	-.02955	-.18572	-.26024	-.23192	-.24422	324.81492	5.00774
.289	.815	-.00333	-.17086	-.26018	-.23341	-.24360	323.60973	4.99314
.288	1.846	-.00778	-.16815	-.26330	-.23405	-.24105	322.61055	4.99037
.288	4.013	-.01555	-.16313	-.25955	-.23288	-.24341	321.79871	4.98329
.288	6.129	-.01244	-.16554	-.26299	-.23529	-.24122	322.62673	4.98572
.289	8.199	-.01089	-.15309	-.25932	-.23509	-.24578	323.70322	4.98468
.289	10.343	-.00933	-.15349	-.26520	-.23939	-.24592	323.66330	4.99220
.289	11.334	-.00933	-.11795	-.26708	-.24216	-.24733	324.56330	5.01110
.288	12.376	-.00778	-.11043	-.26955	-.24572	-.25556	322.55345	4.98332
.288	13.421	-.00933	-.10541	-.27701	-.25125	-.25931	322.66331	4.98165
.288	14.515	-.01400	-.12047	-.27475	-.25486	-.26137	325.55131	4.98347
.297	15.555	-.01400	-.11043	-.27199	-.25339	-.27105	320.97730	4.97015
.288	16.639	-.03889	-.12047	-.28370	-.26464	-.27079	321.77050	4.97426
.286	17.680	-.03889	-.12568	-.28336	-.27039	-.26110	318.12933	4.94745
.289	18.605	-.12684	-.19572	-.29133	-.27421	-.29118	325.27423	5.01122
.288	19.594	-.10103	-.16382	-.30581	-.28450	-.31839	323.07457	4.94986
.287	20.914	-.11042	-.17666	-.32356	-.28639	-.35638	320.95340	4.95030
.287	23.159	-.12558	-.18113	-.35593	-.29459	-.37839	319.45357	4.95005
GRADIENT		.00393	.00314	.00049	.00005	.00030	.17347	-.00013

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.6000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6000 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

BETA = .000 BOFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 6.000 ELEVON = .000
 AILPON = .000

PARAMETRIC DATA

RUN NO. 77/ 0 RN/L = 6.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.290	-2.353	-.02644	-.14556	-.26837	-.23515	-.24815	399.27744	5.99363
.290	-1.375	-.01177	-.15911	-.26179	-.23736	-.24720	399.30544	6.00313
.290	-.293	-.01244	-.14827	-.26368	-.23616	-.24692	398.45954	5.99404
.289	.791	-.01399	-.14305	-.26182	-.23567	-.24450	397.35346	5.99355
.290	1.873	-.01656	-.14305	-.26402	-.2356	-.24211	399.40815	5.99653
.289	3.935	-.01856	-.12549	-.26338	-.23631	-.24347	397.48930	5.99924
.290	6.078	-.01244	-.12798	-.26234	-.23619	-.24491	398.49327	5.99225
.291	8.226	-.01400	-.12549	-.26221	-.23954	-.24483	400.79930	6.01153
.291	10.372	-.02177	-.11545	-.26231	-.24310	-.25006	400.59516	6.00720
.289	11.390	-.02933	-.11545	-.27242	-.24504	-.25239	397.77485	5.99370
.289	12.439	-.00156	-.09788	-.27507	-.24949	-.25532	397.49237	5.99579
.291	13.725	-.01856	-.10341	-.27473	-.25317	-.26264	400.65150	6.00923
.290	14.534	-.01856	-.09789	-.28186	-.25613	-.26455	399.85299	6.00160
.290	15.677	-.03266	-.09282	-.28092	-.26250	-.27594	399.59123	6.00640
.290	16.738	-.03732	-.09337	-.29739	-.26344	-.28095	399.74559	6.00061
.290	17.841	-.05843	-.08764	-.29259	-.27076	-.28933	398.56557	5.99190
.290	18.900	-.07309	-.09035	-.29342	-.28014	-.29448	398.60330	5.97370
.289	19.395	-.04977	-.11043	-.31177	-.28866	-.31017	397.07823	5.97837
.290	21.216	-.09243	-.08533	-.32805	-.30358	-.35371	399.56238	5.93646
.290	21.532	-.09487	-.09788	-.33393	-.30731	-.36411	399.89457	6.00186
.291	23.338	-.10109	-.12047	-.36256	-.31693	-.40459	401.43435	6.00974
	GRADIENT	.00098	.00382	.00042	-.00001	.00092	-.16940	-.00133

LA61B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

LARC LTPT 228(LA61B)B26C9E43F8M16N28R5VBW

(AUT011) (30 JUL 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPCBRK = 25.000
 RN/L = 6.000 ELEVON = .000
 AILRON = .000

RUN NO.	16/ 0	RN/L = 5.88	GRADIENT INTERVAL = -5.00/ 5.00					
ALPHA	ELVN-L	ELVN-R	CPB1	CP32	CPB3	O1P5F1	RN/L	
-2.319	-.06055	.09025	-.26797	-.22133	-.24788	179.61559	6.01223	
-.248	-.05910	.08524	-.27679	-.22064	-.24299	179.12676	6.00321	
.781	-.03577	-.06274	-.28460	-.21995	-.24373	179.69359	6.01212	
1.813	-.04199	-.06329	-.27351	-.21950	-.24275	180.58395	6.02104	
4.906	-.05754	-.06274	-.26357	-.22302	-.24153	179.32570	6.00593	
5.930	-.05443	-.06274	-.27624	-.22139	-.24311	179.18401	6.00711	
7.972	-.03262	-.05525	-.26834	-.22518	-.24561	179.21774	6.00381	
10.665	-.04977	-.05274	-.26976	-.22601	-.24659	178.28118	6.00769	
11.689	-.04977	-.05772	-.29077	-.23098	-.24793	178.63862	6.00733	
12.131	-.05376	-.06223	-.28754	-.23521	-.25377	178.44274	6.00988	
13.450	-.04306	-.05274	-.29219	-.23077	-.25462	177.05195	6.00750	
14.232	-.03262	-.05274	-.29014	-.23826	-.25713	177.69566	6.00515	
15.244	-.04199	-.05019	-.31875	-.24651	-.26513	177.74307	6.00712	
16.286	-.05132	-.04759	-.32649	-.24614	-.27693	177.73312	6.00635	
17.752	-.03732	-.06274	-.32844	-.25374	-.27615	177.65790	6.00559	
18.684	-.03110	-.06274	-.32391	-.25723	-.28518	176.67553	6.00842	
19.546	-.02488	-.05023	-.33320	-.26030	-.28581	175.68332	6.00681	
20.723	-.03110	-.07027	-.33652	-.26195	-.31225	176.00829	6.00593	
22.747	-.01711	-.06533	-.36054	-.28326	-.36599	173.51234	6.00136	
GRADIENT	.00072	-.02449	-.00182	-.00022	.00073	.00393	-.00118	

LA618 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT011) (30 JUL 76)

LARC LTPT 228(LA618)B26C9E43FEM16N28R5V8W

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.5800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 6.000 ELEVON = .000
 AILRON = .000

RUN NO. 27/ 0 RN/L = 6.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	O(PSF)	RN/L
.250	-2.380	-1.13530	-.06525	-.27438	-.23636	-.24675	346.64505	6.07101
.250	-1.368	-1.13685	-.06525	-.27716	-.23718	-.24664	344.35957	6.05219
.250	-.283	-1.13375	-.06274	-.27448	-.23868	-.24336	344.07208	6.05085
.250	.770	-1.13731	-.06274	-.27699	-.23944	-.24749	344.85899	6.05505
.250	1.942	-1.11137	-.06525	-.27019	-.23983	-.24373	344.54610	6.05550
.249	3.912	-1.0264	-.06274	-.27285	-.24099	-.24227	343.30514	6.04013
.249	6.078	-1.07331	-.05019	-.26677	-.23991	-.24298	342.15461	6.03194
.249	8.302	-1.27028	-.05521	-.27102	-.24231	-.24536	343.45947	6.03892
.250	10.528	-1.11634	-.04517	-.28713	-.24677	-.25250	345.28766	6.05419
.250	11.351	-1.11654	-.03765	-.28846	-.24926	-.25094	344.71071	6.04837
.249	12.589	-1.1042	-.03514	-.29729	-.25315	-.25327	343.47221	6.03757
.249	13.458	-1.1042	-.04016	-.29781	-.25636	-.25701	343.72166	6.03502
.250	14.493	-1.1353	-.04517	-.30424	-.26196	-.26418	344.26408	6.03811
.250	15.621	-1.3375	-.03514	-.30034	-.26417	-.27478	345.66411	6.04992
.250	16.753	-1.2131	-.03012	-.31194	-.27172	-.27627	344.19261	6.03767
.250	17.756	-1.3375	-.01505	-.31405	-.27785	-.28152	344.86978	6.04223
.250	18.811	-1.4463	-.02005	-.31520	-.28421	-.29531	345.58901	6.04487
.250	20.025	-1.5085	-.01004	-.32195	-.28959	-.30320	345.69303	6.04363
.249	20.990	-1.3841	-.00502	-.33756	-.29377	-.33427	343.95128	6.03103
.251	22.017	-1.1474	-.00250	-.37250	-.30963	-.37966	348.87899	6.07075
.250	23.153	-1.14463	-.00752	-.38071	-.31512	-.39259	346.61870	6.04464
GRADIENT		.00612	.00030	.00061	-.00074	.00066	-.36083	-.00336

(AJT011) (30 JUL 76)

LARC LTPT 228(LAS1B)B26C9E43FEM)6N28R5V8W

REFERENCE DATA

SPEF = 2590.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LPEF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 935.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPDBRK = .25.000
 RN/L = 6.000 ELEVON = .000
 AIRLON = .000

RUN NO. 26/ 0 RN/L = 5.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.300	-2.423	-.03266	-.14556	-.27654	-.23673	-.24940	400.53832	6.03932
.300	-1.353	-.03577	-.15560	-.27605	-.23648	-.24883	400.49526	6.02465
.299	-.238	-.03421	-.14305	-.27096	-.23641	-.24599	400.61281	6.01818
.300	-.757	-.02789	-.16062	-.26818	-.23907	-.24628	401.78380	6.02653
.300	1.840	-.03421	-.15358	-.27437	-.23937	-.24462	402.56112	6.02302
.299	3.934	-.03732	-.14807	-.27521	-.23716	-.24503	399.67989	6.00320
.300	6.233	-.02955	-.13863	-.26757	-.23884	-.24743	403.66972	6.02998
.300	8.251	-.03421	-.13301	-.26733	-.24079	-.24591	402.06321	6.01107
.301	10.347	-.03421	-.12298	-.28167	-.24519	-.24709	405.21061	6.03072
.299	11.443	-.03732	-.12800	-.28490	-.24894	-.25034	402.18105	6.00588
.299	12.734	-.02955	-.10792	-.29074	-.25308	-.25808	402.89464	6.00641
.293	13.551	-.03732	-.11545	-.30260	-.25814	-.26130	402.70336	6.00290
.299	14.689	-.04255	-.11796	-.30648	-.26175	-.26739	403.22640	6.00534
.300	15.456	-.06532	-.12549	-.30766	-.26845	-.27608	405.15394	6.01607
.299	17.180	-.06843	-.13050	-.31650	-.27653	-.28189	402.49064	5.99190
.300	17.975	-.07776	-.12800	-.31443	-.27978	-.28952	406.39738	6.01456
.300	18.938	-.07932	-.13552	-.32503	-.28432	-.29633	405.41642	5.99210
.300	20.195	-.07776	-.13552	-.33476	-.28536	-.31788	405.74497	5.99135
.299	21.179	-.09353	-.12947	-.35993	-.30156	-.36213	402.34310	5.96619
.297	22.327	-.13497	-.11545	-.37998	-.31403	-.39504	399.94310	5.94524
.296	23.528	-.16174	-.10541	-.39131	-.31697	-.39748	395.70135	5.91260
	GRADIENT	-.00040	-.00018	.00019	-.00025	.00067	.00909	-.00404

LA61B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT012) (30 JUL 76)

LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8W

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO BETA = .000 BDFLAP = .000
 LREF = 474.8000 INCHES YMRP = 0000 IN. YO RUDDER = .000 SPDBRK = 25.000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RN/L = 7.000 ELEVON = .000
 SCALE = .0150 AILRON = .000

PARAMETRIC DATA

RUN NO. 74/ 0 RN/L = 7.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.289	-2.418	.00000	.06518	-.26882	-.23867	-.25163	458.95209	7.04893
.288	-1.391	.00933	.07020	-.26843	-.23846	-.24791	456.55696	7.03151
.289	-.299	-.00311	.06518	-.26522	-.23909	-.24553	454.93864	7.01488
.288	.752	.00311	.05515	-.26726	-.23854	-.24521	456.63804	7.02743
.288	1.684	.09333	.06267	-.26520	-.23651	-.24375	453.93184	7.00770
.289	4.007	-.00311	.07321	-.26433	-.23641	-.24732	457.55452	7.03389
.287	6.274	-.00156	.06032	-.26064	-.23781	-.25033	453.71661	7.00346
.288	8.277	.00000	.06032	-.26322	-.24406	-.25045	455.26046	7.01039
.289	10.386	.00000	.09075	-.27174	-.24632	-.24781	454.73479	7.00793
.287	11.607	.00777	.09527	-.27366	-.24983	-.25158	453.11952	6.99446
.289	12.596	.01534	.10279	-.27884	-.25110	-.25442	459.31489	7.03357
.289	13.716	.02622	.11532	-.27345	-.25527	-.26528	457.54848	7.01873
.288	14.758	-.00778	.12535	-.28174	-.25702	-.26732	457.02427	7.01653
.288	15.811	.01244	.12884	-.28817	-.26204	-.27477	457.24084	7.01291
.288	17.005	.09642	.11281	-.28891	-.27105	-.28740	454.63749	6.99213
.288	18.073	.09487	.09276	-.28756	-.27626	-.29126	455.22833	6.99826
.288	19.104	-.10264	.07270	-.29599	-.28134	-.29712	457.70280	7.01721
.288	20.122	-.07399	.07521	-.30545	-.29166	-.31371	461.11011	7.03803
.289	21.324	-.12753	.09022	-.32496	-.30185	-.34809	457.28132	7.01128
.289	23.445	-.13440	.12384	-.36672	-.32127	-.41298	460.78626	7.03407
	GRADIENT	-.00042	.00074	.00069	.00041	.00056	-.21625	-.00240

LARC LTPT 228(LA51B)B26C9E43FBM16N28R5VBW

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO BETA = .000 BDFLAP = .000
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO RUDDER = .000 SPDBRK = 25.000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RN/L = 8.000 ELEVON = .000
 SCALE = .0150 AIRLON = .000

PARAMETRIC DATA

RUN NO. 18/ 0 RN/L = 7.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.255	-2.430	.00932	-.14305	-.26726	-.23508	-.24879	435.15613	8.00401
.255	-1.334	.01393	-.13552	-.27497	-.23296	-.24373	435.61936	7.99477
.256	-.308	.02798	-.13301	-.27171	-.23596	-.24786	438.06924	8.01161
.257	.917	.01243	-.12800	-.27899	-.23488	-.24690	442.91128	8.04273
.257	1.890	.03622	-.14054	-.27572	-.23864	-.24515	441.79226	8.02790
.257	4.135	.02487	-.14807	-.27484	-.23820	-.24460	442.19072	8.02253
.256	6.119	.02331	-.12549	-.26359	-.24169	-.25170	440.34070	7.99803
.256	8.298	.03000	-.12299	-.26081	-.24159	-.24654	445.86722	8.04426
.258	10.639	.01865	-.12047	-.26374	-.24507	-.25016	446.41123	8.04690
.257	11.638	.01399	-.10541	-.27605	-.24739	-.25478	445.42989	8.03146
.257	12.723	.01554	-.10792	-.29489	-.24853	-.25742	443.46634	8.00785
.257	13.777	.02303	-.11043	-.30972	-.25506	-.25841	443.67924	8.01580
.256	14.662	.02176	-.11294	-.30386	-.26104	-.26732	442.53473	7.99813
.256	16.083	.03108	-.12293	-.30155	-.26042	-.27808	440.08115	7.97484
.255	17.190	.01855	-.11807	-.31606	-.27083	-.28243	439.55931	7.96621
.256	17.945	.03108	-.14556	-.31630	-.27653	-.28847	441.72628	7.98108
.255	19.244	.02487	-.12047	-.32301	-.28447	-.29401	440.40687	7.96700
.255	20.618	.02798	-.09286	-.33247	-.29006	-.31253	438.59532	7.94659
.254	21.670	.02642	-.06023	-.34994	-.29523	-.34925	437.03015	7.93100
.254	24.251	.00953	-.02259	-.39472	-.31747	-.40996	435.68684	7.91905
GRADIENT		.00110	-.00107	-.00099	-.00070	.00041	1.26706	.00463

(AJT014) (30 JUL 76)

LARC LIPT 228(LA51B)B26C9E43FB416N28R5V8W

REFERENCE DATA

SREF = 2690.0000 SO.FT.
LREF = 474.8000 INCHES
BREF = 936.6800 INCHES
SCALE = .0150

XMRP = 1076.7000 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
RUDDER = .000 SPDBRK = 25.000
RN/L = 8.000 ELEVON = .000
AILRON = .000

RUN NO. 73' 0 RN/L = 7.88 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.291	-2.447	.00777	.01755	-.26776	-.23944	-.25166	522.71944	8.07472
.290	-1.420	.02798	.02256	-.26727	-.23893	-.24918	519.32016	8.04621
.290	-1.353	.01865	.04262	-.27094	-.23854	-.24665	520.60016	8.05346
.290	-1.730	.02020	.05706	-.27125	-.23604	-.24565	519.26997	8.04402
.289	1.808	.03466	.04262	-.26389	-.23765	-.24343	516.61285	8.01786
.288	3.571	-.03467	.05513	-.26944	-.23890	-.24606	513.80274	7.99381
.291	4.017	.03089	.03760	-.27270	-.23799	-.24113	521.91253	8.05448
.291	5.165	.03654	.04011	-.26977	-.23982	-.24537	521.27686	8.04619
.290	8.324	.03399	.05516	-.25283	-.23379	-.24721	519.03667	8.02516
.290	10.564	.03333	.06022	-.27719	-.24694	-.24920	519.99633	8.02513
.289	11.535	.03455	.06273	-.27451	-.24758	-.25665	518.21217	8.01862
.289	12.655	.03124	.03329	-.27644	-.25273	-.25509	516.77	8.01418
.289	13.710	.03331	.03527	-.28059	-.25640	-.25968	515.45478	7.93379
.289	14.836	.03320	.0527	-.28312	-.26257	-.26795	515.84308	7.94493
.290	16.025	.03686	.08774	-.28314	-.26453	-.27598	520.33652	8.03138
.289	17.020	-.03309	.07521	-.28921	-.27011	-.27899	518.94234	8.01358
.290	18.173	-.03688	.04011	-.29333	-.27645	-.28874	520.12697	8.02004
.289	19.394	-.03176	.04763	-.30703	-.28176	-.29556	517.88035	8.00724
.289	20.374	-.03308	.07772	-.30791	-.28637	-.31412	515.20327	7.98471
.287	21.498	-.06552	.10529	-.33876	-.29964	-.35546	512.12853	7.95516
.284	23.626	-.08373	.08273	-.35758	-.32042	-.40719	502.30454	7.87791
	GRAC ENT	-.00443	.00327	-.00037	.00015	-.00124	- 61.79	- .00687

LASIB (LARC LTPY 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT015) (30 JUL 76)

LARC LTPY 228(LA61B)B26C9E43FBH13N2BR5VBH

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 935.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BOFLAP = .000
 RUDDER = .000 SPDRK = 25.000
 RN/L = 8.000 ELEVON = .000
 AIRLON = .000

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.202	-2.411	-.03110	-.10541	-.27965	-.23723	-.24748	327.90434	8.09086
.202	-1.434	-.02732	-.09035	-.27377	-.23600	-.24758	325.59325	8.06273
.201	-1.257	-.04510	-.10290	-.27434	-.23761	-.24387	323.68637	8.03603
.201	.836	-.03688	-.04086	-.27925	-.23782	-.24813	324.02814	8.03707
.200	2.475	-.04732	-.10290	-.27064	-.23783	-.24365	322.34651	8.01396
.201	3.929	-.03577	-.10792	-.26934	-.24047	-.24922	322.80444	8.01680
.200	6.018	-.03566	-.03537	-.26205	-.23542	-.24570	321.11589	7.98587
.200	8.214	-.04732	-.05035	-.26784	-.23950	-.24770	322.73083	8.00451
.202	9.200	-.03732	-.02866	-.26095	-.24584	-.25235	326.13018	8.04603
.202	11.343	-.03577	-.03784	-.26086	-.24769	-.25206	376.61760	8.04532
.202	12.448	-.03732	-.07027	-.25305	-.25364	-.25918	327.46437	8.05689
.202	13.462	-.03077	-.05025	-.30270	-.25396	-.25798	327.71804	8.05520
.202	14.508	-.03110	-.05772	-.30214	-.25592	-.26397	327.71955	8.04946
.202	15.457	-.02498	-.05525	-.31080	-.25635	-.26627	326.64765	8.03765
.201	17.181	-.02799	-.05925	-.30394	-.27280	-.28069	325.09374	8.01714
.202	17.821	-.02498	-.07278	-.31471	-.27429	-.28782	329.82870	8.07073
.202	18.730	-.03266	-.10290	-.30706	-.27718	-.29027	329.51120	8.05426
.202	19.317	-.03110	-.10298	-.32071	-.28298	-.29583	329.92914	8.06839
.202	20.591	-.03016	-.10239	-.32638	-.28592	-.31744	327.85618	8.03354
.202	21.516	-.03077	-.07529	-.33935	-.28761	-.33969	325.90075	8.00530
.201	GRADIENT	-.00005	-.00109	.00122	-.00051	-.00005	-.74963	-.01115

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LASIB (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA
LARC LTPT 228(LASIB)B26C9E43F8M16N28R5V8W

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

BETA = .000 BOFLAP = .000
RUDDER = .000 SPOBRK = 25.000
RN/L = 10.000 ELEVON = .000
AILRON = .000

RUN NO. 13/ 0 RN/L = 9.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	O(PSF)	RN/L
.150	-2.741	-.10082	-.12288	-.26695	-.24157	-.25554	323.85661	10.01387
.150	-1.323	-.09927	-.11536	-.27586	-.23268	-.24734	325.06160	10.02603
.150	-.283	-.10082	-.11285	-.27857	-.23254	-.23866	324.71549	10.02013
.150	.717	-.09307	-.12539	-.25595	-.23781	-.24868	325.17359	10.02309
.150	1.357	-.09462	-.11787	-.27450	-.23786	-.24080	324.85714	10.01469
.149	3.923	-.09152	-.11034	-.26764	-.24566	-.24952	322.61567	9.97582
.149	6.586	-.10082	-.10784	-.27464	-.24171	-.24426	323.22199	9.98981
.149	7.704	-.06686	-.10533	-.26391	-.23676	-.25424	321.93222	9.96275
.149	10.118	-.09462	-.09279	-.28373	-.24181	-.25743	320.54354	9.94561
.149	11.161	-.09617	-.07273	-.28211	-.24118	-.25898	321.62138	9.96103
.149	12.297	-.06841	-.06276	-.27747	-.25046	-.25281	320.29094	9.93744
.149	13.248	-.08376	-.07322	-.30146	-.24919	-.25397	320.91556	9.94633
.149	14.221	-.05327	-.05517	-.30296	-.25942	-.27015	321.02928	9.94335
.149	15.915	-.10552	-.06013	-.30305	-.26430	-.28355	319.85222	9.92692
.149	16.492	-.10682	-.05768	-.29933	-.26838	-.27516	320.33508	9.92841
.149	17.513	-.10237	-.05524	-.31247	-.27221	-.28023	320.72786	9.93770
.149	18.547	-.10237	-.07273	-.31340	-.27036	-.29057	320.26631	9.92486
.148	20.242	-.10558	-.12588	-.31325	-.28036	-.29793	318.63557	9.90203
.149	20.694	-.10543	-.12539	-.32894	-.28044	-.32356	319.56851	9.91396
.148	21.742	-.10858	-.10282	-.33438	-.27890	-.33407	317.72313	9.88305
.146	22.914	-.10548	-.10031	-.35945	-.29195	-.36247	314.76116	9.83950
GRADIENT		.00164	.00124	.00051	-.00123	.00064	-.22485	-.00641

LA61B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT017) (30 JUL 75)

REFERENCE DATA

SPEF	=	2690.0000	SQ.FT.	XMRP	=	1076.7000	IN.	X0	=	.000	BFLAP	=	.000
LREF	=	474.8000	INCHES	YMRP	=	.0000	IN.	Y0	=	.000	SPDBRK	=	25.000
BRF	=	936.6800	INCHES	ZMRP	=	375.0000	IN.	Z0	=	8.000	ELEVON	=	.000
SCALE	=	.0150								.000	AILRON	=	.000

PARAMETRIC DATA

[illegible]

LAR618 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT018) (30 JUL 76)

LARC LTPT 228(LA618)B26C9E43F8415N28R5V8W

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6000 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 10.000 ELEVON = .000
 AILRON = .000

RUN NO. 8/ 0 RN/L = 10.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.199	-2.423	-.03878	-.00752	-.29238	-.23356	-.24931	462.56889	10.09726
.200	-1.369	-.04343	-.00251	-.27359	-.23585	-.24195	462.50350	10.10851
.201	-.247	-.03678	-.00502	-.28643	-.23612	-.24938	461.95848	10.10161
.199	.807	-.03558	.00251	-.26156	-.23604	-.25357	460.75656	10.09042
.199	1.829	-.02947	.01522	-.26776	-.24038	-.24627	461.29506	10.09221
.199	4.061	-.02257	.00752	-.26903	-.23793	-.24388	460.52485	10.08560
.200	6.106	-.02327	.01254	-.27222	-.24378	-.24923	462.86360	10.10903
.200	9.333	-.03568	.04013	-.26846	-.24126	-.25413	462.39019	10.10044
.199	10.537	-.04899	.06771	-.27791	-.24293	-.25133	461.13884	10.08228
.200	11.794	-.03818	.07222	-.28016	-.24627	-.25650	461.38080	10.09119
.200	12.576	-.03723	.08055	-.29020	-.25039	-.25748	464.32582	10.11325
.200	13.711	-.04509	.09175	-.28306	-.24858	-.26362	463.91176	10.10606
.200	14.644	-.05115	.10184	-.30023	-.26041	-.27009	463.10849	10.10051
.200	15.858	-.05534	.09181	-.29558	-.26639	-.28333	463.73130	10.10406
.199	17.140	-.06049	.12038	-.29839	-.27197	-.28874	461.76239	10.07403
.200	18.082	-.08221	.08527	-.31810	-.26938	-.23644	452.23392	10.08084
.199	19.218	-.08221	.08778	-.31453	-.27693	-.29752	459.31779	10.04724
.199	20.294	-.07445	-.02005	-.32079	-.28006	-.30882	459.70104	10.04798
.198	21.269	-.07601	-.00502	-.33763	-.28360	-.31934	456.05058	10.00826
.198	22.398	-.10237	.00752	-.35351	-.28456	-.35565	456.08045	10.00240
.201	23.512	-.15201	.03260	-.36813	-.29711	-.39010	458.63179	10.13766
GRADIENT		.00166	.00239	.00340	-.00053	.00032	-.34248	-.00278

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.3000 INCHES
 BREF = 935.6800 INCHES
 SCALE = 0.153

BETA = .000 BOFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RW/L = 10.000 ELEVON = .000
 A'RON = .000

PARAMETRIC DATA

RUN NO. 7/ 0 RW/L = 9.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	R1"
.249	-2.165	.04034	-.01755	-.25610	-.23409	-.24972	564.19067	10.04572
.249	-1.511	.04034	-.01003	-.28252	-.23677	-.24628	564.10853	10.04190
.249	-1.324	.03978	-.01254	-.28529	-.23677	-.24420	565.31988	10.04512
.248	-.803	.04493	.00000	-.26901	-.23783	-.25158	562.61607	10.01754
.249	1.302	.04493	.00752	-.28160	-.24018	-.24694	563.68742	10.02300
.247	4.044	.03413	-.00291	-.20971	-.23684	-.25035	558.16736	9.57247
.247	6.235	.03568	.00000	-.27279	-.24095	-.24440	557.80252	9.96141
.247	8.428	.02482	-.03250	-.27458	-.24370	-.25119	557.70896	9.95370
.247	10.557	.01951	.06521	-.27912	-.24313	-.25370	556.25583	9.93543
.245	11.779	-.00310	.06521	-.28933	-.25163	-.25417	550.85663	9.88251
.245	12.757	-.00310	.07273	-.28733	-.25095	-.25962	553.26193	9.90002
.245	13.132	-.01511	.07273	-.28709	-.25466	-.26442	551.39874	9.87769
.245	15.124	-.02015	.05517	-.30202	-.26117	-.27305	550.09337	9.86548
.245	16.037	.00716	.04514	-.31187	-.26435	-.27766	549.19487	9.85124
.244	17.174	-.01951	.02257	-.30814	-.27113	-.28765	547.91201	9.83653
.244	18.270	-.03102	.04514	-.31246	-.27498	-.29647	544.31344	9.80062
.244	19.395	-.03429	.07022	-.31218	-.28056	-.29803	544.83977	9.79596
.243	20.476	-.07755	.03028	-.31561	-.28446	-.31170	541.21642	9.76168
.242	21.798	-.12564	.13522	-.33967	-.28517	-.34715	538.10903	9.73181
.241	22.650	-.22647	.15549	-.38405	-.29009	-.37800	535.74682	9.70800
.240	23.755	-.31798	.11035	-.37160	-.29850	-.38965	530.80504	9.65723
GRADIENT		-.00346	.00211	.00262	-.00049	-.00034	-.66097	-.01088

LARC LIPT 228(LA51B)B26C9E43F8116N28R5VBW

REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1076.7000 IN. XO
 .REF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 10.000 ELEVON = .000
 ALLRON = .000

R/N NO.	38/ 0	RN/L = 9.97	GRADIENT INTERVAL = -5.00/ 5.00	CPB1	CPB2	CPB3	Q(PSF)	RN/L
MACH	ALPHA	ELVN-L	ELVN-R					
.24	-2.111	-.02177	.07027	-.27303	-.23981	-.24793	524.36089	10.33905
.24	-1.934	-.02955	.05772	-.28606	-.23998	-.25323	522.67014	10.31291
.24	-.862	-.03732	-.06274	-.28280	-.23620	-.24311	523.91141	10.31756
.24	-.754	-.02499	-.05772	-.27719	-.23864	-.24414	524.73126	10.32530
.24	.932	-.02955	-.06023	-.28576	-.23678	-.24375	524.78517	10.32148
.24	1.110	-.03266	-.06274	-.28103	-.24122	-.24579	526.20347	10.32618
.24	6.271	-.03110	-.05019	-.27865	-.24255	-.24788	525.36352	10.31250
.24	8.350	-.04044	-.04016	-.26807	-.24491	-.25020	520.84988	10.23450
.24	10.575	-.04610	-.03012	-.28548	-.24578	-.24657	523.03502	10.25247
.24	11.973	-.03732	-.01526	-.29396	-.24682	-.25658	521.69253	10.23329
.24	12.660	-.04377	-.00753	-.30070	-.25721	-.25913	521.12594	10.22836
.24	13.781	-.05132	.00531	-.30182	-.25354	-.26233	521.51876	10.22085
.24	14.860	-.05949	.00001	-.30954	-.25881	-.26799	519.54250	10.19686
.24	15.915	-.07629	.00534	-.29901	-.26837	-.27856	517.49500	10.17021
.23	17.021	-.15552	-.02259	-.31578	-.27192	-.28375	516.64096	10.16057
.23	18.153	-.16174	-.03514	-.31230	-.27697	-.29275	514.36566	10.13473
.23	19.254	-.20235	-.01505	-.32265	-.27972	-.29806	509.98564	10.08389
.23	20.391	-.25194	.02256	-.32798	-.28319	-.30852	509.20307	10.07829
.23	21.528	-.30015	.08774	-.33819	-.28795	-.33102	507.62336	10.06003
.23	23.612	-.46501	.09777	-.37293	-.29907	-.38517	498.90321	9.97285
GRADIENT		-.00101	.00065	-.00067	-.00009	.00079	.39780	-.00050

REFERENCE DATA

SREF = 2630.0000 50.F.T. XMRP = 1076.7000 IN. X0 BETA = .000 BDFLAP = .000
 SREF = 474.8000 INCHES YMRP = .0000 IN. Y0 RUDDER = .000 SPDBRK = 25.000
 SREF = 935.6800 INCHES ZMRP = 375.0000 IN. Z0 RN/L = 11.000 ELEVON = .000
 SCALE = .0130 ALLRON = .000

PARAMETRIC DATA

RUN NO.	14/ 0	RN/L = 11.02	GRADIENT	INTERVAL = -5.00/ 5.00	CPB3	CPB2	CPB1	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	QIPSF)	RN/L
MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	QIPSF)	RN/L						
.156	-2.648	-1.0670	-1.1787	-27170	-23213	-24658	397.20110	11.02736						
.156	-1.517	-1.0670	-1.2038	-28187	-23636	-25099	396.88630	11.01730						
.155	-1.527	-1.0670	-1.1787	-27706	-23620	-24474	398.08838	11.03115						
.155	.001	-1.0670	-1.3041	-28655	-23295	-24256	397.57131	11.0133						
.155	1.146	-1.0698	-1.2539	-27933	-24259	-24662	397.97135	11.02246						
.155	4.325	-1.0745	-1.1787	-27825	-23327	-24731	397.59895	11.01635						
.155	6.382	-1.0735	-1.1285	-28374	-23787	-24136	395.85387	10.98471						
.155	9.286	-1.0725	-1.1034	-28967	-23944	-25383	395.48838	10.97992						
.155	12.364	-1.0715	-1.1034	-29714	-23979	-24990	394.73826	10.95625						
.155	15.172	-1.06925	-1.0282	-29426	-24422	-24596	393.32053	10.94329						
.155	18.223	-1.0755	-1.0784	-28538	-24742	-25753	394.40475	10.95190						
.156	21.414	-1.09025	-1.09275	-27553	-25116	-25778	395.52639	10.96625						
.156	24.507	-1.0984	-1.09275	-27355	-24985	-25777	395.99885	10.96694						
.156	27.493	-1.07831	-1.07274	-30723	-26722	-27654	393.60490	10.94019						
.156	30.719	-1.0775	-1.07524	-30033	-26463	-26634	398.25973	10.99054						
.167	33.731	-1.09617	-1.09279	-32172	-27301	-28945	401.76361	11.01338						
.167	36.553	-1.10382	-1.0784	-32648	-27804	-29828	400.79047	11.02329						
.167	39.344	-1.10382	-1.0892	-31111	-27705	-29571	404.17026	11.06808						
.167	42.172	-1.10382	-1.0925	-31947	-28771	-32204	401.68900	11.02805						
.167	45.155	-1.12307	-1.07774	-34674	-28882	-34477	399.66167	11.00149						
.167	48.344	-1.09017	-1.05768	-35590	-29472	-36199	401.34982	11.01953						
.167	GRADIENT	-1.00331	-1.00029	-1.00029	-1.00020	-1.00016	.08441	-1.00126						

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(30 JUL 76)

LAE1B (LARC LTPT 228) REMOTE ELEVON 1AIRULATED SOURCE DATA

LARC LTPT 228(LA61B)B26C9E43F8116N28R5V3W

REFERENCE DATA

SPEF = 2590.0000 SQ.FT.
LREF = 474.6000 INCHES
BRCT = 335.8000 INCHES
SCALE = .0150

XMRP = 1075.0000 IN. X0
YMRP = .0000 IN. Y0
ZMRP = 375.0000 IN. Z0

PARAMETRIC DATA

BETA = .000
RUDDER = .000
RN/L = 12.000
AILRON = .000
BDFLAP = .000
SPDBRK = 25.000
ELEVON = .000

RUN NO. 127 0 RN/L = 12.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	O(PS)	RN/L
1.00	2.413	21871	119561	-27848	-23886	-25371	514.36496	12.19405
1.00	3.45	21716	120313	-27712	-23946	-24814	515.67742	12.18581
1.00	4.49	21585	119310	-28237	-23504	-24246	515.04903	12.17613
1.00	5.53	21471	118310	-27219	-23846	-24721	512.48860	12.13990
1.00	6.57	21335	117355	-26928	-24152	-25925	511.24006	12.11241
1.00	7.61	21232	116355	-27540	-24303	-23950	513.39182	12.12710
1.00	8.65	21144	115307	-28589	-24635	-25009	514.17412	12.13337
1.00	9.69	21055	114253	-29485	-24881	-25005	515.36255	12.14107
1.00	10.73	20964	113203	-29776	-25402	-26450	517.52600	12.15647
1.00	11.77	20873	112151	-30259	-25394	-25674	518.32749	12.15257
1.00	12.81	20776	111095	-30386	-25044	-26575	517.87039	12.13485
1.00	13.85	20685	110034	-30221	-25560	-27623	515.20846	12.09543
1.00	14.89	20591	108969	-30175	-25631	-29232	513.83530	12.07787
1.00	15.93	20491	107902	-31804	-27091	-28740	510.05612	12.02560
1.00	16.97	20382	106839	-31082	-27821	-27750	510.19990	12.02018
1.00	18.01	20277	105777	-32555	-27862	-31545	515.60145	12.07418
1.00	19.05	20169	104711	-35784	-28541	-34476	517.90356	12.08697
1.00	20.09	20061	103685	-35311	-29184	-36096	519.08756	12.09137
1.00	21.13	19953	102657	-35311	-29184	-39274	514.26905	12.03232
1.00	22.17	19845	101629	-37899	-31014	.00116	-27545	-1.00776
1.00	23.21	19737	100601	.00055	.00228			

REFERENCE DATA

SREF = 2600.0000 SQ FT. XREF = 1076.7000 IN. XO BETA = .000 BOFLAP = .000
 LREF = 474.6000 IN. HES YREF = .0000 IN. YO RUDDER = .000 SPOBRK = 25.000
 BREF = 936.5000 IN. HES ZREF = 375.0000 IN. ZO RN/L = 12.000 ELEVON = .000
 SCALE = .0150 AIRLON = .000

PARAMETRIC DATA

RUN NO. 15/ 0 RN/L = 12.10 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	O(PSF)	RN/L
.185	-2.656	-.08221	-.12790	-.28114	-.23676	-.25464	490.35497	12.13345
.184	-1.632	-.04343	-.12263	-.25945	-.23822	-.25063	489.12708	12.10336
.183	-.522	-.05429	-.12539	-.27698	-.23647	-.24932	487.41247	12.08727
.182	.190	-.02316	-.12039	-.26835	-.23954	-.24713	488.15333	12.09051
.181	2.627	-.04307	-.13241	-.27931	-.23733	-.24503	487.05577	12.07062
.180	2.779	-.04496	-.12039	-.26337	-.24064	-.25572	487.41080	12.07131
.179	5.369	-.04185	-.12038	-.26593	-.23343	-.24748	485.52795	12.05272
.183	8.070	-.03678	-.09239	-.27655	-.23661	-.25297	482.37442	12.00331
.194	10.749	-.04073	-.08777	-.29453	-.24531	-.25246	486.54732	12.05094
.184	11.497	-.03878	-.07222	-.26411	-.24520	-.26109	487.88139	12.06232
.184	12.119	-.04564	-.05266	-.26324	-.24721	-.25944	489.67838	12.07864
.194	13.547	-.04924	-.05139	-.27035	-.25381	-.26464	489.86853	12.06911
.184	14.230	-.05334	-.04514	-.29135	-.25933	-.26676	485.66036	12.05320
.184	15.703	-.05274	-.04263	-.31349	-.26931	-.27475	459.43736	12.05394
.183	16.983	-.07756	-.06210	-.31937	-.26341	-.28158	455.26439	12.01435
.183	18.193	-.06670	-.05025	-.31635	-.26918	-.28570	485.62264	12.01783
.185	19.033	-.05980	-.09238	-.31792	-.27625	-.29265	492.04405	12.09467
.185	20.132	-.06390	-.06320	-.32574	-.28567	-.31287	494.05859	12.11000
.184	21.253	-.06915	-.05012	-.32791	-.28394	-.31650	483.55637	12.05161
.184	22.443	-.08006	-.02257	-.35255	-.29527	-.30894	488.10016	12.02855
.185	23.693	-.09617	-.04514	-.38024	-.29334	-.32335	493.88298	12.03833
24.4015		-.00453	-.00044	-.00060	-.00033	-.00021	-.42592	-.00909

LAS1B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT023) (30 JUL 76)

LARC LTPT 228(LAS1B)B26C9E43F6M16N28R5V8W

REFERENCE DATA

SREF = 2530 0000 50. FT. YMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = 10000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BOFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 12.500 ELEVON = .000
 AILRON = .000

RUN NO. 29/ 0 RN/L = 12.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	O(PSF)	RN/L
.200	-2.521	-09176	-104517	-27988	-23471	-25248	569.66593	12.88368
.199	-1.455	-09176	-05270	-28119	-24227	-24982	564.93994	12.78821
.198	-218	-09220	-05521	-28226	-23654	-25003	561.60589	12.71521
.197	-1.455	-09176	-05521	-27630	-24101	-25646	559.34071	12.66251
.196	-1.455	-09176	-05521	-27518	-24142	-24679	561.66157	12.66493
.195	-4.012	-09176	-05521	-28149	-23926	-25174	559.61930	12.61190
.194	-5.113	-09176	-05521	-28352	-24014	-24390	557.61384	12.56450
.193	-6.325	-09176	-05521	-25886	-23769	-25231	557.47411	12.54651
.192	-10.530	-09176	-05521	-28359	-24882	-25247	556.75754	12.50772
.191	-11.600	-09176	-05521	-28980	-24750	-25499	556.88871	12.48082
.190	-12.705	-09176	-05521	-29047	-25341	-26015	552.63844	12.41450
.189	-14.154	-09176	-05521	-30804	-25642	-26732	552.83328	12.38499
.188	-14.421	-09176	-05521	-30289	-25888	-26972	550.27176	12.33418
.187	-15.948	-09176	-05521	-31093	-26753	-27195	551.66207	12.31912
.186	-17.214	-09176	-05521	-31411	-27515	-28913	562.53896	12.50514
.185	-18.326	-09176	-05521	-32499	-27844	-28587	570.90191	12.58382
.184	-19.383	-09176	-05521	-31718	-27779	-30282	566.17347	12.52295
.183	-20.507	-09176	-05521	-33418	-28842	-32890	566.29093	12.51892
.182	-21.644	-09176	-05521	-34025	-28779	-34171	571.95864	12.57340
.181	-22.853	-09176	-05521	-35631	-29923	-36663	571.04163	12.55516
.180	-23.969	-09176	-05521	-37769	-31326	-38297	571.70217	12.56102
.179	-25.016	-09176	-05521	-40021	-40047	-40010	-1.37078	-0.03967

GRADIENT

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN XO BETA = .000 BOFLAP = .000
 LREF = 474.8000 INCHES YMRP = .0000 IN YO RUDDER = .000 SPOBRK = 25.000
 BREF = 935.6800 INCHES ZMRP = 375.0000 IN ZO RN/L = 13.500 ELEVON = .000
 SCALE = .0150 AILRON = .000

PARAMETRIC DATA

RUN NO 61/ 0 RN/L = 13.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.211	-2.532	-.0953	-.1129	-.26015	-.23824	-.24985	526.69537	13.87849
.211	-1.450	-.09487	-.11294	-.26368	-.23932	-.24672	526.83684	13.87763
.210	-.286	-.09176	-.10541	-.27047	-.23732	-.25235	523.93908	13.83299
.211	.809	-.09487	-.11043	-.27227	-.23896	-.24426	526.09745	13.85193
.209	.693	-.09554	-.10421	-.27952	-.24040	-.24175	517.34423	13.75162
.208	4.103	-.09337	-.10396	-.27996	-.24133	-.24204	512.68453	13.68649
.208	6.259	-.09487	-.10792	-.27111	-.23777	-.25300	511.60342	13.66697
.203	8.441	-.09497	-.10339	-.27420	-.24041	-.24301	510.19346	13.64417
.203	10.624	-.09497	-.10792	-.27543	-.24084	-.24594	511.24126	13.64702
.207	11.036	-.10276	-.13250	-.27563	-.24807	-.25565	507.92255	13.60789
.207	12.636	-.09642	-.13050	-.27614	-.25103	-.25681	508.51153	13.61339
.207	13.948	-.11197	-.16113	-.27279	-.23673	-.26840	507.60691	13.59362
.207	15.109	-.17347	-.16113	-.28082	-.25324	-.26713	504.61019	13.55554
.207	16.363	-.13437	-.13552	-.27971	-.26051	-.28147	504.26199	13.54810
.206	17.569	-.24417	-.11545	-.29112	-.27245	-.29112	503.80098	13.53673
.206	19.772	-.20336	-.03788	-.29019	-.27533	-.29693	500.82462	13.43450
.206	19.503	-.35171	-.07278	-.31041	-.27861	-.31206	509.97431	13.48501
.205	20.819	-.34633	-.03019	-.31939	-.28312	-.33532	504.91477	13.46259
.205	21.555	-.51477	-.06825	-.32048	-.29406	-.35636	504.59727	13.41637
.205	24.011	-.68252	-.18223	-.31819	-.31819	-.38522	525.33919	13.30460
.203	GRADIENT	.00029	.00571	-.101	-.00047	.00135	-2.23318	-.03041

LA618 (LARC LTPT 228) REMOTE LLEVON TABULATED SOURCE DATA

(AUT025) (05 AUG 75)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO BETA = 2.000 BDFLAP = .000
 LREF = 474.8000 INCHES YMRP = 0000 IN. YO RUDDER = .000 SPDBRK = 25.000
 BREF = 946.6900 INCHES ZMRP = 375.0000 IN. ZO RN/L = 12.500 ELEVON = .000
 SCALE = .0150 AILRON = .000

PARAMETRIC DATA

RUN NO. 30/ 0 RN/L = 12.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.200	-0.079	-15397	-10792	-31092	-24317	-24351	572.32161	12.46164
.200	1.853	-15552	-10290	-28420	-23479	-24220	571.56149	12.44182
.200	3.988	-16174	-09788	-29825	-24401	-24297	573.18970	12.44625
.200	6.202	-16330	-08784	-29822	-24952	-25011	575.10423	12.45785
.200	8.502	-16330	-07529	-29165	-25005	-24901	572.12584	12.42470
.200	10.571	-16174	-06525	-29842	-25352	-25762	572.71108	12.41840
.200	11.755	-16019	-06274	-30725	-25402	-26135	572.83282	12.41472
.200	12.777	-16019	-06525	-30543	-25431	-25755	572.30252	12.40744
.199	13.813	-16485	-06023	-31066	-26068	-26774	570.15761	12.38149
.199	15.019	-16330	-05519	-32418	-26762	-27482	570.08761	12.37292
.199	16.038	-17107	-04267	-31898	-27451	-28120	570.30421	12.37425
.198	17.146	-18351	-06023	-31659	-27879	-28957	566.04100	12.31311
.198	18.330	-18130	-06525	-32896	-28487	-28609	566.74045	12.31980
.198	19.441	-17825	-06023	-33706	-28098	-29992	565.03079	12.29766
.198	20.508	-21151	-04768	-34625	-28699	-31557	562.21350	12.25527
.197	21.512	-21773	-02761	-35963	-28927	-32677	558.03603	12.18507
	GRADIENT	-00193	00147	00294	-00028	00012	022331	-00368

LARC LTPT 228 : REMOTE ELEVON TABULATED SOURCE DATA

(AJT026) (30 JUL 76)

LARC LTPT 228(LA61R)B26C9E43F8M16N28R5V8W

REFERENCE DATA

SPEF = 2690.000 SO.FT. XMRP = 1076.7000 IN. NO
 LREF = 474.6000 INCHES RMRP = 9000 IN YO
 BREF = 936.6000 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = 4.000 BDFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 12.500 ELEVON = 10.000
 AILRON = .000

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	O(PSF)	RN/L
.200	.192	9.90375	9.98286	-.34693	-.27904	-.28617	560.32630	12.52111
.199	.255	9.91731	9.98787	-.33542	-.27789	-.29359	554.49638	12.43494
.198	.786	9.91421	9.98537	-.34259	-.27301	-.28745	555.53662	12.42667
.199	9.944	9.98523	10.00783	-.33334	-.26855	-.28610	556.97236	12.43718
.201	2.733	9.97730	10.01196	-.32658	-.27259	-.28480	565.97233	12.54228
.202	10.927	9.95353	10.01234	-.32303	-.27278	-.28627	575.62103	12.62820
.203	2.519	9.93742	10.01044	-.31616	-.27569	-.28337	576.36916	12.62880
.203	3.141	9.91576	10.00647	-.32405	-.27638	-.29031	577.33427	12.62866
.202	1.220	9.91447	10.01044	-.31869	-.28079	-.28796	571.75541	12.56306
.201	15.329	9.91447	10.00542	-.32175	-.28393	-.29466	567.05611	12.49990
.200	16.430	9.90488	9.97785	-.33043	-.28869	-.29735	564.83463	12.47601
.200	17.536	9.90688	9.93773	-.33479	-.29398	-.30595	563.03747	12.44801
.200	18.636	9.95157	9.95078	-.34350	-.29303	-.30289	563.29363	12.44302
.199	19.733	9.97774	9.91266	-.34620	-.30366	-.30090	560.03756	12.40725
.199	20.659	9.85353	9.85759	-.36630	-.30490	-.34052	559.32169	12.39680
.199	20.937	9.91113	9.99269	-.37104	-.30391	-.35301	557.30640	12.36436
.198	22.051	9.91897	9.90514	-.40777	-.34830	-.37211	554.49466	12.33145
GRADIENT		-.00370	.00059	.00102	.00144	-.00029	-1.13573	-.02245

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L A61B (LARC LIPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT027) (05 AUG 75)

LARC LIPT 228(LA61B)B26C9E43F8416N2BR5V8W

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO BETA = 4.000 BDELAP = .000
 LPEF = 474.8000 INCHES YMRP = .0000 IN. YO RUDDER = .000 SPDRK = 25.000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RN/L = 12.500 ELEVON = 5.000
 SCALE = .0150 AIRRON = .000

PARAMETRIC DATA

RUN NO. 46.0 RN/L = 12.51 GRADIENT INTERVAL = -5.00/ 5.00

MAC	ALPHA	ELVN-L	ELVN-R	CPBI	CPB2	CPB3	QIPSF1	RN/L
200	063	4 97342	4 90870	-33081	-26976	-26918	564.51613	12.45100
200	2 145	4 46410	4 91522	-32213	-26275	-27607	563.81105	12.43429
200	4 267	4 47031	4 92123	-32451	-26106	-26360	561.34020	12.39734
200	6 434	4 46543	4 93374	-33055	-26362	-27129	557.87442	12.35557
200	8 611	4 46114	4 93226	-32048	-26520	-27066	559.15125	12.35243
200	10 788	4 45725	4 92777	-31887	-26849	-27954	551.04935	12.32274
200	12 965	4 45336	4 92374	-31961	-26950	-27762	557.70253	12.33228
200	14 142	4 44947	4 92009	-31804	-26824	-27556	551.00591	12.32560
200	16 319	4 44558	4 91621	-31109	-26725	-27176	572.41304	12.27252
200	18 496	4 44169	4 91321	-31927	-27316	-28260	551.34103	12.24715
200	20 673	4 43780	4 89516	-31145	-27032	-28161	552.68438	12.25637
200	22 850	4 43391	4 90619	-30871	-27459	-28664	549.49426	12.21275
200	24 102	4 43002	4 91373	-32352	-28438	-29221	575.65114	12.49631
200	26 279	4 42613	4 87302	-34474	-28669	-30374	575.85822	12.48773
200	28 456	4 42224	4 98692	-25405	-30386	-32831	573.17184	12.45333
200	30 633	5 01072	5 00146	-37642	-31925	-34913	570.14105	12.41039
200	32 810	5 00373	5 00208	00119	00207	00134	551.85155	-0.01278

LARC LTPT 228(LAS1B)B2C9E43F8116N28R5V8W

REFERENCE DATA

SREF = 2650.0000 SQ. FT. XMRP = 1076.7000 IN. XC
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6000 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

BETA = 4.000 BCFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 12.500 ELEVON = .000
 AILRON = .000

PARAMETRIC DATA

RUN NO. 33/ 0 RN/L = 12.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q (PSF)	RN/L
.201	-1.071	-1.5708	-1.07529	-1.30077	-1.24989	-1.24577	565.64778	12.58076
.200	1.361	-1.13997	-1.06274	-1.31534	-1.24728	-1.24897	562.71716	12.53822
.200	4.089	-1.13685	-1.05521	-1.30418	-1.24627	-1.24603	561.72506	12.51707
.198	6.231	-1.13375	-1.05270	-1.29203	-1.24579	-1.25007	551.75867	12.40903
.200	8.374	-1.13937	-1.05170	-1.30190	-1.24733	-1.24837	559.63802	12.48998
.201	10.521	-1.13587	-1.03263	-1.30308	-1.24961	-1.25562	567.87485	12.57816
.201	11.725	-1.13635	-1.03262	-1.30925	-1.25212	-1.26226	567.75795	12.56633
.201	12.704	-1.13941	-1.01500	-1.31151	-1.25294	-1.25990	566.60332	12.55758
.201	13.684	-1.13530	-1.01255	-1.30004	-1.25903	-1.27003	566.08146	12.54647
.201	14.938	-1.15085	-1.00001	-1.30921	-1.26245	-1.27146	564.97500	12.53273
.201	16.094	-1.15708	-1.00712	-1.30342	-1.26468	-1.28511	564.62203	12.52061
.200	17.237	-1.16795	-1.00712	-1.31724	-1.27181	-1.28852	562.62272	12.50062
.200	18.522	-1.16541	-1.01004	-1.31400	-1.27843	-1.28682	560.43010	12.46886
.199	19.427	-1.18040	-1.04517	-1.32126	-1.28311	-1.29662	557.75012	12.43497
.199	20.542	-1.19751	-1.04758	-1.33355	-1.28354	-1.31132	556.04716	12.41891
.199	21.635	-1.20216	-1.01255	-1.34960	-1.28660	-1.33998	555.14238	12.40301
	GRADIENT	.00483	.00482	-1.00077	.00087	-1.00005	-1.93921	.01527

(AJT029) (30 JUL 76)

LARC LTPT 228 L61B1B26C9E43F8H16N28R5V8W

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = 4.000 BDFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 7.000 ELEVON = .000
 AILRON = .000

RUN NO. 75/ 0 RN/L = 5 96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	O(PSF)	RN/L
.290	-1.065	-.00778	.11532	-.30069	-.24833	-.25175	458.50276	6.95331
.290	1.385	-.00622	.12074	-.29146	-.24806	-.25034	456.83586	6.93904
.288	4.088	-.01089	.12284	-.29410	-.24883	-.24876	452.66282	6.90153
.291	6.418	-.02022	.13036	-.29086	-.24996	-.25092	460.58465	6.95659
.291	8.339	-.00933	.13036	-.28505	-.24541	-.24900	460.12533	6.94566
.292	10.531	-.04622	.13538	-.28686	-.24752	-.25518	462.72668	6.97238
.291	11.585	-.04687	.14239	-.29305	-.24770	-.26068	460.74293	6.94777
.291	12.659	-.04044	-.06223	-.29377	-.25061	-.26801	461.94315	6.95499
.291	13.733	-.03577	-.05772	-.28863	-.25545	-.27488	453.92300	6.93425
.291	14.818	-.03998	-.04517	-.29667	-.26036	-.28210	462.03685	6.95063
.291	15.920	-.07785	-.04016	-.29443	-.26500	-.29714	452.10095	6.94157
.291	16.997	-.09220	-.02959	-.29580	-.26936	-.30028	462.53896	6.94454
.292	18.125	-.09542	-.05502	-.30343	-.27419	-.31207	463.38499	6.94575
.291	19.265	-.10731	-.01755	-.30779	-.27790	-.31298	462.50795	6.91991
.290	20.372	-.09176	-.01757	-.32195	-.28643	-.31875	459.48195	6.91550
.292	21.415	-.11042	-.02510	-.33175	-.29012	-.34551	466.07974	6.96458
GRADIENT		-.00075	.00161	.00158	-.00012	.00072	-1.40860	-.01249

LARC LTPT 228 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT030) (30 JUL 76)

LARC LTPT 228(LAE1B1R26C9E43F8M16N29R5V8W)

REFERENCE DATA

SREF = 2690.0000 54.57 XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = 4.000 B0FLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 12.500 ELEVON = -5.000
 ALLRON = .000

RUN NO. 45/ 0 RN/L = 12.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	O(PSF)	RN/L
.205	-2.18	-5.12906	-5.17502	-.28001	-.22689	-.22527	591.24987	12.64209
.205	1.872	-5.13372	-5.09722	-.27322	-.22362	-.23180	591.82456	12.63541
.204	4.002	-5.03575	-5.07212	-.27487	-.22518	-.23226	590.45931	12.61797
.204	6.144	-5.03441	-5.05456	-.25504	-.23071	-.23585	588.36173	12.59043
.203	8.333	-5.05130	-5.05957	-.26493	-.23166	-.23818	584.50945	12.53758
.203	10.515	-5.06063	-5.05707	-.28031	-.24023	-.24338	581.40770	12.49871
.203	11.615	-5.06895	-5.05456	-.26887	-.23693	-.25468	583.71130	12.52164
.203	12.716	-5.05441	-5.03699	-.27653	-.24263	-.24307	583.55681	12.49899
.204	13.837	-5.07774	-5.03147	-.28153	-.24523	-.25194	586.53698	12.54431
.203	14.949	-5.07307	-5.14240	-.29375	-.25089	-.26037	584.18079	12.51258
.203	16.041	-5.07929	-5.13289	-.30232	-.26030	-.27043	582.94753	12.49667
.203	17.137	-5.06532	-5.11989	-.31543	-.26217	-.26997	582.16307	12.43030
.203	18.257	-5.12433	-5.14240	-.30673	-.26756	-.27285	590.71609	12.48475
.202	19.399	-5.13528	-5.17251	-.32373	-.27588	-.28169	577.84455	12.42822
.202	20.537	-5.13217	-5.15738	-.33261	-.28681	-.29491	576.49098	12.41142
.201	21.656	-5.14617	-5.14491	-.35693	-.29404	-.31828	574.17213	12.38570
	GRADIENT:	.02219	.02434	.00121	.00041	-.00164	-.16879	-.00572

LAG18 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT031) (30 JUL 76)

LARC LTPT 228(LAS18)B26C1543F8M16N28R5V8W

REFERENCE DATA

SPT = 2690 0000 50 FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = 0000 IN. YO
 BREF = 936.8000 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = 0150

PARAMETRIC DATA

BETA = 4.000 BDFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 12.500 ELEVON = -10.000
 AILRON = .000

RUN NO. 48/ 0 RN/L = 12.51 GRADIENT INTERVAL = -5.00/ 5.00

*AC	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
1.99	1.325	-10.10726	-10.15101	-25495	-21174	-22004	560.88082	12.38823
2.00	1.738	-10.11348	-10.15181	-24233	-21129	-22359	581.32829	12.60407
2.01	2.151	-10.11959	-10.15178	-24093	-21422	-22504	576.66515	12.54493
2.02	2.567	-10.12569	-10.14425	-23013	-21958	-23122	578.49480	12.55453
2.03	2.981	-10.13148	-10.14476	-24733	-22282	-23131	540.69335	12.57479
2.04	3.395	-10.13348	-10.12156	-25093	-22738	-23731	581.67208	12.57689
2.05	3.809	-10.13484	-10.11654	-25542	-22728	-24530	582.14623	12.58373
2.06	4.223	-10.13443	-10.11554	-26046	-23108	-25145	580.11067	12.55121
2.07	4.637	-10.13236	-10.11556	-26043	-23566	-25125	578.53624	12.53387
2.08	5.051	-10.12926	-10.11556	-26273	-23976	-25144	579.13625	12.53548
2.09	5.465	-10.12540	-10.09307	-27443	-24432	-25455	580.86646	12.55793
2.10	5.879	-10.12145	-10.11527	-28025	-2442	-2551	585.31546	12.59476
2.11	6.293	-10.11726	-10.11578	-29170	-25611	-26093	585.54433	12.59566
2.12	6.707	-10.11291	-10.11112	-31194	-26211	-27346	583.26161	12.56040
2.13	7.121	-10.10841	-10.11580	-32063	-27344	-29150	583.79847	12.54310
2.14	7.535	-10.10352	-10.11436	-33791	-27934	-30207	578.49904	12.52976
2.15	7.949	-10.09852	-10.09441	-35033	-28060	-30215	578.73560	12.53703

SPADIENT

C-4

LAG1B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT032) 30 JUL 75

LARC LTPT 228(LA61B)B26C9E43F3M16N28R5V8H

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
 LREF = 474.8000 INCHES
 BREF = 936.6800 INCHES
 SCALE = .0150

XMRP = 1076.7000 IN. XO
 YMRP = .0000 IN. YO
 ZMRP = 375.0000 IN. ZO

PARAMETRIC DATA

BETA = .000 BOFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 12.500 ELEVON = 10.000
 AIRLON = .000

RUN NO. 51/ 0 RN/L = 12.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.200	-2.227	9.98104	10.02799	-33180	-25891	-27204	564.24016	12.60087
.200	-1.138	9.96705	10.03303	-32995	-26089	-27418	562.50174	12.57389
.200	.002	9.96960	10.04804	-33242	-26343	-26762	562.04936	12.56338
.200	1.086	9.97537	10.02799	-32963	-26776	-26960	564.81381	12.58802
.200	2.170	9.97016	9.94526	-31245	-26329	-27418	562.84796	12.56377
.200	4.398	9.96033	9.93278	-32938	-25904	-26198	561.40101	12.54179
.200	6.489	9.93157	9.95531	-32312	-26597	-26989	561.89585	12.54127
.200	8.710	9.87535	9.96531	-31747	-26274	-26495	563.11815	12.55302
.200	10.880	9.84833	9.94024	-31661	-25802	-27174	562.14427	12.53586
.200	11.993	9.83183	9.92771	-31986	-26769	-26888	564.92014	12.56565
.201	13.065	9.94218	9.97266	-31641	-27074	-27360	561.16287	12.59049
.200	14.155	9.94373	9.89752	-33133	-27176	-28104	561.91314	12.57372
.200	15.286	9.91110	9.92019	-33969	-27624	-28398	564.32	12.56278
.200	16.416	9.93596	9.89010	-34607	-29019	-29400	561.91871	12.54405
.201	17.516	9.93266	9.83996	-34351	-28615	-29488	561.76377	12.57285
.201	18.657	9.90482	9.94024	-34595	-29252	-30982	561.99305	12.60684
.201	19.775	9.82670	9.93272	-34297	-29876	-33111	561.90237	12.60132
.201	21.051	9.76811	9.90013	-37511	-30569	-36111	561.81257	12.57641
.200	22.129	9.98104	10.00793	-40621	-31630	-38605	561.02361	12.55369
.202	23.292	9.97637	10.05556	-40664	-34800	-38095	561.76316	12.64368
GRADIENT		-00201	-01491	.00123	-00011	.00125	-26340	-00702

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LA61B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT033) (30 JUL 76)

LARC LTPT 228(LA61B)B26C9E43F3M16N2BR5V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 13.000 ELEVON = 5.000
 ALLRON = .000

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.205	-2.353	4.92990	4.95884	-29843	-25278	-25783	600.95975	13.06018
.206	-1.262	4.91436	4.95132	-30020	-25513	-25981	603.40778	13.07383
.206	-.147	4.90348	4.95383	-30663	-25275	-26313	603.29415	13.07340
.205	.935	4.90193	5.00888	-31249	-24771	-25881	598.82646	13.02088
.205	1.986	4.90348	4.95383	-29892	-25151	-25749	598.40244	13.00627
.204	4.207	4.90037	4.96135	-29795	-25089	-25529	597.63330	12.98935
.204	6.348	4.83329	4.97137	-30267	-25711	-25689	595.33626	12.96751
.204	8.554	4.85997	4.96395	-30412	-25248	-26027	595.80811	12.96882
.204	10.908	4.93764	4.97396	-29936	-25523	-26116	593.92694	12.94768
.204	11.851	4.91592	4.87350	-2883	-26059	-26449	593.61800	12.94078
.203	13.017	4.89260	4.88363	-29957	-25957	-26972	591.50538	12.91312
.203	14.201	4.89105	4.94891	-29720	-25893	-26308	590.91748	12.90776
.203	15.555	4.87084	4.94581	-31110	-27050	-27622	587.59212	12.86415
.202	16.265	4.84442	4.95132	-30838	-26748	-26223	585.56963	12.85149
.202	17.421	4.93501	4.95383	-31034	-26995	-28459	585.45843	12.83910
.202	18.545	4.92524	4.96135	-31435	-28078	-29832	582.77743	12.80531
.202	19.623	4.93145	4.91873	-32324	-28675	-31688	582.86517	12.80481
.201	20.925	4.90215	4.95104	-35073	-30502	-34339	578.18121	12.74990
.201	21.969	4.85219	4.93628	-36904	-30558	-36819	576.64002	12.72934
.199	24.271	4.97167	4.94380	-41002	-33487	-42509	566.87893	12.62280
	GRADIENT	-0.00391	.00137	.00017	.00053	.00060	-.81663	-.01382

RUN NO. 42/ 0 RN/L = 12.62 GRADIENT INTERVAL = -5.00/ 5.00

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 GOFAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 13.000 ELEVON = -5.000
 AILRON = .000

RUN NO. 41/ 0 RN/L = 12.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	C.P.F.F.	RN/L
.203	-2.612	-5.02642	-5.04452	-25034	-22219	585.555 2	13.04256
.204	-1.534	-5.03730	-5.05957	-25893	-22573	588.111 3	13.05704
.204	-.444	-5.04197	-5.05707	-25989	-21990	591.111 4	13.07709
.204	.625	-5.03575	-5.04703	-26273	-22917	592.111 4	13.07952
.204	1.722	-5.03108	-5.04201	-26956	-22467	589.111 3	13.04770
.203	4.071	-5.04041	-5.04452	-26021	-23273	588.111 2	13.03533
.204	6.088	-5.04663	-5.03999	-26047	-22343	590.111 4	13.05139
.204	8.300	-5.03886	-5.02193	-27061	-22782	589.111 5	13.03722
.204	10.517	-5.04241	-5.03220	-27272	-23328	591.111 3	13.05251
.204	11.591	-5.04509	-5.08457	-25364	-23798	591.111 7	13.04747
.203	12.754	-5.05130	-5.09216	-25525	-24431	591.111 7	13.04071
.203	14.033	-5.05285	-5.08718	-29543	-25571	588.111 1	13.00245
.204	16.079	-5.07929	-5.08718	-30343	-25380	589.94087	13.02197
.204	17.342	-5.12884	-5.13487	-30224	-26322	590.42938	13.01345
.203	18.428	-5.17416	-5.15306	-31113	-26816	590.71585	13.02092
.203	19.425	-5.25085	-5.18536	-32456	-27446	588.27947	12.93555
.204	20.736	-5.08185	-5.07965	-33930	-27920	589.56186	12.99752
.203	21.660	-5.19729	-5.09718	-34294	-29724	590.39780	13.00713
.201	24.128	-5.05441	-5.17000	-35975	-29757	588.32875	12.99323
GRADIENT		-00107	00133	-00158	-00141	574.32445	12.81710
						50005	-00171

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I.A61B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT035) (30 JUL 76)

LARC LTPT 228(I.A61B)B26C9E43F8M16N28R5V8W

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = .000 BDFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 12.500 ELEVON = -10.000
 ALLRON = .000

RUN NO. 49/ 0 RN/L = 12.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	O (PSF)	RN/L
.205	-2.775	-9.97041	-10.22205	-.2332E	-.20961	-.22111	590.94230	12.67605
.204	-1.734	-10.14925	-10.23460	-.2389E	-.20903	-.22039	583.22983	12.58026
.203	-.599	-10.13215	-10.22205	-.23571	-.20909	-.22069	580.92042	12.55756
.203	.502	-10.14303	-10.21201	-.23472	-.21116	-.22357	579.06936	12.53692
.203	1.635	-10.13370	-10.21954	-.2420E	-.21088	-.21865	578.72795	12.52835
.203	3.780	-10.13215	-10.21452	-.25192	-.21386	-.22037	579.60121	12.53158
.204	5.939	-10.13837	-10.20950	-.2518E	-.21593	-.21953	584.04119	12.58116
.205	8.144	-10.12924	-10.20350	-.2499E	-.21609	-.23007	588.29205	12.61771
.204	10.398	-10.12748	-10.20695	-.2427E	-.21986	-.24630	583.43503	12.56660
.204	11.546	-10.13215	-10.20197	-.2720E	-.22725	-.24016	582.83713	12.55573
.204	13.644	-10.12437	-10.19946	-.26574	-.22856	-.24951	582.30589	12.55272
.204	14.744	-10.12530	-10.19595	-.2700E	-.23181	-.24448	583.00684	12.55097
.204	15.886	-10.13526	-10.22205	-.2756E	-.24262	-.25274	584.04008	12.55873
.205	16.977	-10.13215	-10.17687	-.2857E	-.25124	-.26501	590.61701	12.62634
.204	18.171	-10.13526	-10.19444	-.3028E	-.26365	-.27153	586.44409	12.57698
.204	19.339	-10.13992	-10.17697	-.30921	-.26534	-.28227	587.44943	12.58551
.204	20.342	-10.15392	-10.17185	-.3137E	-.27110	-.28531	585.76189	12.58534
.204	21.675	-10.17414	-10.17436	-.33741	-.28087	-.30514	583.33527	12.54216
GRADIENT		-.31580	.00207	-.0024E	-.00069	.00006	-1.50020	-.01093

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = -2.000
 RUDDER = .000
 RN/L = 12.500
 AILRON = .000
 SPDBRK = 25.000
 ELEVON = .000

RUN NO. 31/ 0 RN/L = 12.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.199	-.043	-.09542	-.12549	-.25178	-.23127	-.27198	557.96778	12.74796
.198	1.896	-.08087	-.12549	-.25439	-.23480	-.26270	547.84808	12.63842
.198	4.000	-.09020	-.12800	-.25127	-.23605	-.25699	548.61791	12.63118
.197	6.181	-.08554	-.14803	-.24155	-.23426	-.26897	546.76848	12.60272
.200	8.351	-.07932	-.12298	-.27051	-.23657	-.25980	559.94584	12.74665
.201	10.602	-.09953	-.11294	-.25809	-.24413	-.27289	565.19043	12.80007
.201	11.716	-.09798	-.11796	-.26248	-.24835	-.27530	565.43152	12.79312
.201	12.729	-.09542	-.10792	-.25708	-.24307	-.27124	567.71850	12.81712
.200	14.976	-.09798	-.11294	-.28050	-.25928	-.28856	564.30747	12.77107
.200	16.086	-.10365	-.10792	-.29482	-.26189	-.29129	562.84786	12.74341
.200	17.193	-.12753	-.12047	-.28765	-.26674	-.29898	562.03386	12.73287
.200	18.815	-.13841	-.12549	-.30157	-.27613	-.30394	561.11092	12.71877
.199	19.400	-.14930	-.12549	-.31705	-.27993	-.31131	556.74035	12.69550
.199	20.527	-.16174	-.11043	-.31820	-.28263	-.32631	555.49072	12.64008
.198	21.597	-.19440	-.10792	-.33452	-.28872	-.36225	550.71565	12.59525
	GRADIENT	.06145	-.00063	.00015	-.00117	.00369	-2.28142	-.02852

LAB1B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT037) (30 JUL 76)

LARC LTPT 228(LAB1B)B26C9E43-8M16N28R5V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO BETA = -4.000 BDFLAP = .000
LREF = 474.8000 INCHES YMRP = .0000 IN. YO RUDDER = .000 SPDBRK = 25.000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RN/L = 12.500 ELEVON = 5.000
SCALE = .0150 AILRON = .000

PARAMETRIC DATA

RUN NO. 43/ 0 RN/L = 12.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.204	.110	4.89882	4.89366	-.25184	-.25205	-.30395	595.45097	12.88093
.204	2.191	4.90193	4.90870	-.25181	-.25287	-.30698	594.78962	12.85171
.204	4.330	4.89260	4.90118	-.25348	-.25158	-.30018	598.73014	12.88166
.203	6.460	4.87706	4.90870	-.24845	-.25336	-.30105	594.19023	12.82321
.204	8.174	4.89135	4.91371	-.26433	-.25321	-.30222	595.51138	12.82930
.203	10.847	4.85152	4.89867	-.26488	-.24953	-.29853	592.62530	12.79204
.203	11.938	4.95193	4.90369	-.26687	-.25617	-.29847	589.32870	12.75572
.203	13.065	4.92970	4.90118	-.26956	-.25908	-.29095	591.05770	12.76594
.203	14.148	4.90504	4.91121	-.26323	-.25856	-.29516	590.49289	12.74772
.203	15.241	4.90504	4.89616	-.26880	-.25907	-.29896	591.08233	12.74805
.202	16.341	4.87240	4.89366	-.27747	-.26987	-.29950	585.59695	12.67015
.202	17.452	4.82733	4.85205	-.29103	-.26729	-.30123	579.50315	12.56229
.202	18.550	4.93348	4.91622	-.28750	-.27305	-.31186	574.84772	12.43036
.201	19.702	4.92213	4.89115	-.30222	-.27841	-.32378	571.58458	12.39180
.200	20.796	4.90504	4.87109	-.32750	-.28871	-.35952	566.09420	12.32826
.200	21.959	4.89727	4.85104	-.36559	-.31774	-.38630	564.09386	12.30049
GRADIENT		-.00149	.00176	-.00039	.00011	.00090	.78204	.00024

L618 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT038) (30 JUL 76)

LARC LTPT 228(L618)B26C9E43F8M16N28R5V8H

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

BETA = -.4.000 BDFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 7.000 ELEVON = .000
 AILRON = .000

RUN NO. 76/ 0 RN/L = 6.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.290	-.017	-.08554	.04763	-.23195	-.23454	-.28286	464.30887	6.97899
.288	2.011	-.09176	.05014	-.23702	-.23294	-.27560	457.47352	6.92310
.290	4.116	-.04511	-.06023	-.23482	-.23344	-.27545	463.44128	6.96846
.288	6.226	-.06843	-.06274	-.23926	-.23446	-.27630	456.87081	6.91768
.290	8.404	-.06933	-.06023	-.24005	-.23618	-.27286	461.95526	6.95288
.289	10.510	-.07465	-.05772	-.24204	-.23900	-.27886	460.39374	6.93930
.290	11.601	-.04667	-.04518	-.24396	-.24011	-.28417	464.31884	6.96588
.291	12.674	-.06532	-.06525	-.25177	-.24549	-.28678	465.26776	6.97157
.290	13.765	-.06376	-.06274	-.25531	-.25323	-.28957	462.66459	6.94983
.289	14.845	-.06376	-.06274	-.25619	-.25909	-.29284	461.82705	6.94528
.290	15.924	-.07465	-.06776	-.26042	-.26181	-.29625	462.08675	6.94604
.289	17.004	-.07389	-.08031	-.26859	-.26673	-.30427	461.54371	6.93654
.290	18.124	-.07389	-.11294	-.28649	-.27390	-.30962	463.45055	6.95382
.290	19.212	-.08097	-.10541	-.29419	-.28590	-.32695	463.05673	6.96265
.290	20.316	-.10109	-.08282	-.30959	-.29210	-.34728	465.25081	6.96541
.290	21.395	-.12131	-.06776	-.31456	-.30152	-.37104	464.53773	6.95149
GRADIENT		.00386	-.02626	-.00068	.00026	.00178	-.19068	-.00240

LAS1B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT039) (30 JUL 76)

LARC LTPT 228 (LAS1B)B26C9E43F8M16N28R5V8W

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO BETA = -4.000 BDFLAP = .000
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO RUDDER = .000 SPDBRK = 25.000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RN/L = 12.500 ELEVON = .000
 SCALE = .0150 AILRON = .000

PARAMETRIC DATA

RUN NO. 32/ 0 RN/L = 12.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q1PSF1	RN/L
.198	-.011	-.13841	-.11545	-.24326	-.23319	-.28687	550.93168	12.56698
.201	2.070	-.11353	-.12549	-.24097	-.23268	-.27180	565.34484	12.72050
.201	4.108	-.11197	-.12298	-.24105	-.23445	-.26848	567.73626	12.74424
.200	6.263	-.11654	-.12298	-.24751	-.23603	-.27522	564.69768	12.69793
.200	8.426	-.14308	-.12047	-.23953	-.23846	-.28413	565.73840	12.69635
.200	10.575	-.13064	-.10541	-.24191	-.23713	-.28334	564.57036	12.68178
.200	11.679	-.14308	-.11294	-.25057	-.24039	-.28366	564.20191	12.67632
.200	12.752	-.13686	-.09537	-.25828	-.24481	-.28575	562.67731	12.65247
.199	13.878	-.13841	-.10290	-.26410	-.25499	-.28935	560.50594	12.62655
.201	14.984	-.13841	-.09266	-.26541	-.25806	-.28678	568.43740	12.70404
.201	16.180	-.15552	-.10290	-.27332	-.26670	-.29824	570.52189	12.72622
.201	17.241	-.16435	-.11796	-.27185	-.27039	-.30928	566.79826	12.67600
.199	18.286	-.16330	-.12298	-.28023	-.27368	-.31452	560.69337	12.60379
.198	19.406	-.17574	-.11796	-.29702	-.27880	-.32272	553.77394	12.52098
.197	20.538	-.19129	-.11545	-.31457	-.28116	-.34768	548.94348	12.46828
.202	21.765	-.21462	-.08031	-.33296	-.28450	-.36295	574.42812	12.74222
	GRADIENT	.00644	-.00184	.00054	-.00030	.00447	4.08978	.04314

LAS1B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

LARC LTPT 228(LAS1B)B26C9E43F8M16N28R5V8M

(AJT040) (30 JUL 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

PARAMETRIC DATA

BETA = -4.000 BOFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 12.500 ELEVON = -5.000
 ALLRON = .000

RUN NO. 44/ 0 RN/L = 12.29 GRADIENT INTERVAL = .5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSP)	RN/L
.205	-1.167	-5.06841	-5.05957	-23422	-21833	-25235	591.43353	12.56518
.205	1.907	-5.06374	-5.05459	-23907	-22079	-24646	592.11281	12.55992
.205	4.029	-5.06641	-5.06459	-24642	-22574	-23948	593.67681	12.57072
.205	6.178	-5.07929	-5.07212	-23833	-22698	-24255	589.81137	12.52557
.205	7.879	-5.06641	-5.07463	-25665	-22617	-24353	590.73335	12.53230
.204	10.562	-5.09707	-5.07463	-24292	-22775	-25170	588.05938	12.49416
.204	11.635	-5.09018	-5.07494	-25643	-23217	-24827	587.62759	12.47912
.204	12.746	-5.07929	-5.13738	-26149	-23758	-25356	585.01767	12.45047
.204	13.877	-5.09016	-5.06209	-26790	-23905	-25747	587.38036	12.46857
.204	14.949	-5.09329	-5.14243	-26973	-24756	-27008	585.62076	12.44410
.203	16.054	-5.10694	-5.13487	-26864	-25326	-28447	580.34603	12.38502
.204	17.174	-5.11556	-5.14240	-26157	-25691	-29323	593.04554	12.40502
.203	18.280	-5.14150	-5.18255	-27332	-26100	-28327	580.24772	12.37053
.203	19.427	-5.09351	-5.07965	-29290	-27442	-30334	577.89389	12.34114
.202	20.528	-5.12384	-5.07212	-30549	-28171	-32539	572.20375	12.27943
.202	21.655	-5.14306	-5.05957	-32357	-28875	-34195	572.64887	12.28553
	GRADIENT	-1.00001	-1.00119	-0.00291	-0.00177	-0.03597	.53540	.00133

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LA61B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

PAGE 114

LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8M

(AJT041) (30 JUL 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8000 INCHES
BREF = 936.6800 INCHES
SCALE = .0150

XMRP = 1076.7000 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

ALPHA = .000 3DFLAP = .000
RUDDER = .000 SPOBRK = 25.000
RN/L = 12.500 ELEVON = 10.000
AILRON = .000

PARAMETRIC DATA

RUN NO. 55/ 0 RN/L = 12.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.205	-5.988	9.89866	10.02799	-.26518	-.27292	-.32309	587.86056	12.56148
.204	-3.999	9.89400	10.02297	-.27053	-.27106	-.32993	587.63906	12.56583
.204	-2.881	9.89711	10.01796	-.27556	-.26155	-.32928	586.68810	12.55517
.205	-1.856	9.90498	10.01545	-.26436	-.25754	-.30884	588.50226	12.57483
.205	-.788	9.90488	10.01545	-.28645	-.26326	-.29223	591.48651	12.61050
.205	.173	9.90488	10.00292	-.30681	-.26222	-.27706	591.12179	12.60307
.205	1.243	9.90643	10.00292	-.33096	-.26950	-.26963	588.78666	12.58556
.204	2.320	9.89623	10.00542	-.34078	-.27689	-.27374	587.25939	12.57189
.204	3.531	9.90177	10.01044	-.33246	-.27828	-.27829	587.31616	12.56945
.204	3.318	9.89555	10.02799	-.34670	-.28272	-.28167	585.59246	12.55410
.204	4.360	9.89866	10.01545	-.34654	-.28694	-.29603	584.35107	12.54668
.204	6.439	9.89400	10.01294	-.34929	-.29069	-.30982	583.72667	12.54337
	GRADIENT	-.00025	-.00060	-.01139	-.00280	.00605	-.34004	-.00178

LARC LTPT 228(LA61B)B26C9E43F8M16N28R5V8M

(AJT042) (30 JUL 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 474.8000 INCHES
BREF = 936.6800 INCHES
SCALE = .0150

XMRP = 1076.7000 IN. XO
YMRP = .0000 IN. YO
ZMRP = 375.0000 IN. ZO

ALPHA = 6.000 BDFLAP = .000
RUDDER = .000 SPOBRK = 25.000
RN/L = 12.500 ELEVON = 10.000
AILRON = .000

PARAMETRIC DATA

RUN NO. 56/ 0 RN/L = 12.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.205	-6.030	9.89866	9.91768	-.27354	-.27424	-.32660	592.70584	12.59358
.205	-4.015	9.90333	9.89261	-.27151	-.26507	-.30757	590.04885	12.56426
.205	-3.009	9.88468	9.87255	-.27245	-.26539	-.30727	591.57353	12.57711
.205	-1.993	9.89711	9.87005	-.26542	-.25755	-.29817	591.47632	12.56775
.205	-.996	9.89366	9.83996	-.29650	-.26329	-.28497	590.61966	12.55662
.204	.009	9.89089	9.87255	-.32769	-.26282	-.26631	587.37701	12.52417
.207	1.015	9.89555	9.94526	-.31581	-.26661	-.26086	599.39331	12.63689
.207	2.004	9.89245	9.94526	-.33542	-.27567	-.27166	601.96581	12.65337
.205	3.308	9.89555	9.93523	-.32484	-.27640	-.28539	593.07681	12.55684
.205	4.012	9.90177	9.92520	-.33697	-.27413	-.29106	591.58147	12.54859
.205	6.042	9.89866	9.92269	-.33301	-.28753	-.30452	591.65062	12.54560
	GRADIENT	.00022	.00942	-.00942	-.00179	.00337	.65122	.00281

LA618 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT043) (30 JUL 76)

LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 13.000 BDFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 12.500 ELEVON = 10.000
 AILRON = .000

RUN NO. 57/ 0 RN/L = 12.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	QIPSF)	RN/L
.207	-6.032	9.87535	9.96030	-29872	-27615	-30932	602.46516	12.67149
.205	-4.051	9.87846	9.91016	-27585	-27224	-30858	589.79979	12.53387
.206	-3.009	9.87380	9.90765	-27575	-27065	-31275	596.51722	12.60038
.207	-2.024	9.87535	9.90013	-26651	-26708	-29265	601.40519	12.64725
.207	-1.979	9.87535	9.89762	-31019	-26563	-26374	600.60230	12.63114
.207	.006	9.87380	9.88759	-32013	-26983	-27478	598.72706	12.60703
.206	1.031	9.87535	9.83010	-32239	-28370	-27547	597.48074	12.58455
.207	2.037	9.87224	9.87205	-32472	-28277	-26668	598.51752	12.59199
.206	3.033	9.90643	10.00041	-33203	-28635	-29382	597.27452	12.58249
.207	4.058	9.90222	10.01796	-32882	-27513	-29413	598.98914	12.59333
.207	6.073	9.89555	10.00793	-33623	-29261	-31459	600.66046	12.61126
	GRADIENT	.00234	.01355	-.00774	-.00178	.00227	.49853	.00047

LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8M

(AJT044) (30 JUL 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 20.000 BDFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 12.500 ELEVON = 10.000
 AILRON = .000

RUN NO. 58/ 0 RN/L = 12.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	QIPSF)	RN/L
.208	-6.007	9.87690	10.10069	-30193	-29800	-36621	602.78528	12.62692
.209	-4.054	9.85048	10.08314	-28794	-29432	-35146	609.01285	12.67670
.207	-2.963	9.87224	10.07813	-31653	-30096	-35858	601.14213	12.58622
.209	-1.925	9.89001	9.97283	-31765	-29201	-36121	608.72276	12.65384
.208	-1.010	9.88468	9.92771	-31585	-29842	-35019	603.32182	12.58906
.208	.010	9.87690	10.00041	-32751	-29239	-32997	606.61137	12.61867
.208	1.062	9.87846	10.00542	-33344	-29782	-33413	606.86978	12.62185
.207	1.985	9.85912	9.93289	-34215	-29588	-33439	601.46214	12.55183
.209	2.250	9.91731	9.99790	-32235	-27948	-29077	609.51477	12.63671
.207	3.844	9.85758	10.02047	-32637	-29956	-31373	601.65854	12.54682
.208	4.015	9.87224	9.90514	-33445	-29574	-34089	606.31665	12.59387
.208	6.016	9.86913	9.95779	-37115	-31311	-35338	609.84050	12.62312
	GRADIENT	.00211	.01188	-.00437	.00039	.00537	-.17207	-.00853

LA618 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

LA618 (LARC LTPT 228) (AJT045) (30 JUL 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

MACH		BETA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.201	.201	-5.874	-.15863	-.00251	-.23933	-.24567	-.29581	564.82544	12.60663
.202	.202	-3.806	-.16330	-.00250	-.24193	-.23328	-.28186	562.72151	12.58758
.203	.203	-2.773	-.15552	-.00753	-.23844	-.22877	-.27248	563.36645	12.59785
.204	.204	-1.750	-.15285	-.00502	-.25013	-.23269	-.26244	561.42187	12.58402
.205	.205	-.757	-.15241	-.00252	-.25513	-.23400	-.25903	559.19600	12.56355
.206	.206	.329	-.14619	-.00502	-.27321	-.23504	-.24892	565.17765	12.61741
.207	.207	1.446	-.15552	-.03753	-.30883	-.23816	-.24900	566.21171	12.61263
.208	.208	2.333	-.15241	-.00501	-.30323	-.24178	-.23955	561.28840	12.55777
.209	.209	3.356	-.13937	-.00502	-.30522	-.24656	-.24815	558.70485	12.53167
.210	.210	4.431	-.15863	-.01255	-.30697	-.25161	-.25401	562.04930	12.56158
.211	.211	6.475	-.14152	-.01004	-.31821	-.25391	-.25429	559.90955	12.54028
.212	.212	GRADIENT	.00395	-.00362	-.01003	-.00241	.00390	-.14835	-.00484

RUN NO. 34/ 0 RN/L = 12.54 GRADIENT INTERVAL = -5.00/ 5.00

LA618 (LARC LTPT 228) (AJT046) (30 JUL 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0150

MACH		BETA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.201	.201	-5.978	-.14941	-.02256	-.24605	-.24614	-.30073	570.27768	12.63623
.202	.202	-3.945	-.10886	-.04768	-.23747	-.23746	-.26596	571.55407	12.64242
.203	.203	-2.979	-.12131	-.03263	-.24355	-.23870	-.27970	570.40396	12.62258
.204	.204	-1.981	-.11975	-.04517	-.25717	-.23352	-.25497	573.18517	12.65613
.205	.205	-.976	-.11509	-.04016	-.26328	-.23624	-.25879	558.99447	12.50401
.206	.206	.024	-.12575	-.04517	-.27685	-.23837	-.24556	560.07936	12.50256
.207	.207	.990	-.10886	-.05270	-.29552	-.24191	-.24174	564.04361	12.54487
.208	.208	1.938	-.10420	-.05521	-.29236	-.25527	-.25311	566.92967	12.57612
.209	.209	3.266	-.10731	-.07278	-.29692	-.24685	-.24999	563.97997	12.53301
.210	.210	3.961	-.10575	-.06023	-.31583	-.24572	-.24655	564.50485	12.53761
.211	.211	5.951	-.10575	-.06525	-.30002	-.25544	-.24995	563.68274	12.52036
.212	.212	GRADIENT	.03152	-.00343	-.00953	-.00177	.00319	-.92646	-.01338

RUN NO. 35/ 0 RN/L = 12.52 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

ALPHA = 6.000 BOFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 12.500 ELEVON = .000
 AILRON = .000

PARAMETRIC DATA

ALPHA = 6.000 BOFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 12.500 ELEVON = .000
 AILRON = .000

LAS18 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT047) (30 JUL 76)

LARC LTPT 228(LAS18)B26C9E43FBM16N28R5V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XC ALPHA = 13.000 BDFLAP = .000
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO RUDDER = .000 SPOBRK = 25.000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RN/L = 12.500 ELEVON = .000
 SCALE = .0150

RUN NO. 36/ 0 RN/L = 12.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.200	-6.030	-1.1664	-0.5019	-27.103	-25574	-29345	562.32381	12.47835
.200	-4.003	-1.1157	-0.6023	-24.403	-24530	-28445	564.31389	12.50391
.200	-2.989	-1.1042	-0.5270	-25.885	-24966	-28996	563.37179	12.49445
.200	-2.016	-1.0886	-0.4768	-26.422	-24557	-27827	562.31100	12.48318
.201	-1.003	-1.1197	-0.1757	-28.65	-25378	-26231	565.41080	12.51736
.200	-0.019	-1.0264	-0.3263	-28.621	-25062	-25972	561.05474	12.47945
.200	1.962	-1.0575	-0.2761	-29.743	-25861	-26124	564.42056	12.51309
.200	2.991	-1.0836	-0.4517	-31.244	-25679	-26146	564.02897	12.51091
.200	3.976	-1.1830	-0.2008	-31.385	-25566	-26820	564.06169	12.51729
.200	6.025	-1.2131	-0.3514	-30.24	-25048	-25855	561.76528	12.48947
GRADIENT		.00334	.00324	-31.692	-26135	-27119	562.44071	12.49947
				-0.0794	-0.0111	.00740	.09426	.00104

PARAMETRIC DATA

(AJT048) (30 JUL 76)

LARC LTPT 228(LAS18)B26C9E43FBM16N28R5V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO ALPHA = 13.000 BDFLAP = .000
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO RUDDER = .000 SPOBRK = 25.000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RN/L = 10.000 ELEVON = .000
 SCALE = .0150

RUN NO. 39/ 0 RN/L = 10.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.237	-6.022	-1.3281	-1.2786	-27.134	-25555	-29098	515.85282	10.07109
.238	-3.981	-1.32348	-1.0028	-26.286	-24837	-28931	517.43730	10.08231
.238	-3.017	-1.3259	-1.1031	-25.963	-24870	-28677	517.32394	10.07483
.237	-1.999	-1.32348	-1.0529	-26.112	-24925	-27814	515.59812	10.05007
.237	-0.993	-1.32193	-1.1031	-28.22	-25226	-26610	516.56061	10.05081
.237	.011	-1.32348	-0.9527	-29.883	-24858	-25791	516.36446	10.04206
.237	.999	-1.32304	-0.9527	-30.63	-25744	-25021	515.88292	10.02732
.238	2.007	-1.32037	-0.9276	-32.305	-25507	-26420	518.19649	10.03935
.237	3.006	-1.31571	-0.9276	-30.842	-25799	-26533	515.49169	10.00560
.237	4.016	-1.30793	-0.8774	-30.55	-25268	-25754	518.24342	10.02175
GRADIENT		.00163	.00238	-0.0765	-0.0103	.00392	.03790	.00824

PARAMETRIC DATA

LA618 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT049) (30 JUL 76)

LARC LTPT 228(LA618)B26C9E43FBM16N28R5V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

ALPHA = 13.000 BOELAP = .000
RUDDER = .000 SPDRK = 25.000
RN/L = 10.000 ELEVON = .000
AILRON = .000

RUN NO. 139/ 0 RN/L = 10.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.234	-6.009	.06994	.09276	-.275316	-.25616	-.29126	508.17189	9.85444
.236	-4.001	.08393	.07772	-.269512	-.25006	-.29357	515.03527	9.92828
.235	-3.013	.07460	.08273	-.25566	-.24919	-.29128	510.53578	9.89143
.235	-1.891	.08548	.08022	-.27249	-.24889	-.27770	511.65767	9.90797
.236	.012	.07149	.08022	-.28621	-.25241	-.26340	515.43813	9.95802
.236	1.003	.07771	.08022	-.29987	-.25351	-.26031	513.48959	9.94679
.236	2.018	.07771	.08273	-.31385	-.25260	-.26011	513.27022	9.94351
.236	3.003	.07149	.08524	-.30120	-.25883	-.26768	514.65728	9.96444
.237	4.021	.07305	.08774	-.30143	-.25318	-.26222	517.26440	9.99851
.237	6.022	-.32193	.09025	-.31509	-.26218	-.26337	517.56056	10.01279
	GRADIENT	-.00114	.00086	-.0072	-.00087	.00414	.40761	.00977

(AJT050) (30 JUL 76)

LARC LTPT 228(LA618)B26C9E43FBM16N28R5V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0150

PARAMETRIC DATA

ALPHA = 19.000 BOELAP = .000
RUDDER = .000 SPDRK = 25.000
RN/L = 10.000 ELEVON = .000
AILRON = .000

RUN NO. 40/ 0 RN/L = 9.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.233	-5.977	-.03732	-.08282	-.28621	-.27525	-.32560	503.35319	9.76454
.232	-4.020	-.02799	-.07780	-.2915	-.28365	-.31593	501.19220	9.73439
.233	-2.999	-.01866	-.08031	-.29533	-.28138	-.31570	501.87031	9.73909
.232	-1.978	-.01400	-.08784	-.29813	-.27726	-.31170	501.21566	9.71863
.232	-.987	-.01089	-.08533	-.31198	-.27359	-.29408	498.80545	9.68983
.232	.000	-.01089	-.09286	-.31566	-.27759	-.29546	501.30130	9.70591
.232	1.001	-.01711	.07027	-.32532	-.28491	-.29804	499.49515	9.68130
.232	2.007	-.01400	-.08784	-.33237	-.28627	-.29465	500.54990	9.68654
.232	2.988	-.01400	-.09286	-.33463	-.29063	-.30451	501.80487	9.69691
.232	4.048	-.00311	-.09788	-.33591	-.27963	-.30829	500.99608	9.67998
	GRADIENT	.00179	-.00172	-.00481	-.00067	.00156	-.02736	-.00693

LASIB (LARC LTPT 228) REMOTE ELEVOR: TABULATED SOURCE DATA

(AJT051) (30 JUL 76)

LARC LTPT 228(LAG1B)B26C9E4JF8M16N28R5V8W

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 19.000 BDFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 10.000 ELEVON = .000
 AILRON = .000

RUN NO. 140/ 0 RN/L = 9.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.231	-5.994	.03466	-1.0039	-.2941	-.27355	-.33268	498.14615	9.58806
.232	-4.038	.01399	-.09537	-.29616	-.28055	-.32271	501.82305	9.62309
.232	-2.991	.00000	-.08784	-.29326	-.27781	-.31952	500.85403	9.61598
.232	-1.981	.00311	-.09788	-.30997	-.27783	-.30768	502.57381	9.63489
.232	-.999	.00311	-.10792	-.3087	-.27610	-.30356	500.81483	9.62575
.232	.000	.03264	-.05523	-.32028	-.27930	-.29970	499.93238	9.62550
.231	.997	-.00778	-.08784	-.32534	-.28260	-.29808	498.34842	9.61495
.231	1.979	.00311	-.10033	-.33319	-.28983	-.30443	498.97570	9.62960
.232	2.997	-.00622	-.09286	-.33563	-.29120	-.30252	501.30285	9.66164
.232	4.056	.00621	-.09537	-.31889	-.28179	-.30094	502.78499	9.68227
.232	5.980	-.00778	-.09537	-.35388	-.29311	-.34773	502.89596	9.68779
	GRADIENT	-.00101	-.00000	-.00465	-.00125	-.00249	-.07135	.00587

(AJT032) (30 JUL 76)

LARC LTPT 228(LAG1B)B26C9E4JF8M16N28R5V8W

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = .000 BDFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 12.500 ELEVON = -10.000
 AILRON = .000

RUN NO. 52/ 0 RN/L = 12.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.202	-5.979	-10.14081	-10.21201	-.23489	-.21121	-.23983	572.33968	12.57056
.202	-3.923	-10.14770	-10.19444	-.22940	-.20898	-.23484	572.99779	12.57599
.201	-2.912	-10.14925	-10.18942	-.23500	-.21132	-.22840	571.93544	12.57022
.202	-1.899	-10.15081	-10.18691	-.22212	-.21203	-.22380	573.29286	12.58639
.201	-.894	-10.15235	-10.19695	-.23005	-.20679	-.22263	571.38084	12.56769
.202	.138	-10.15081	-10.19695	-.24619	-.20956	-.22031	572.71597	12.58214
.201	1.241	-10.15547	-10.19193	-.23406	-.21239	-.22552	569.75820	12.55750
.201	2.305	-10.15236	-10.19444	-.24772	-.21388	-.22184	572.03945	12.57926
.201	3.336	-10.17103	-10.20197	-.24135	-.21069	-.22050	570.87658	12.57281
.201	4.337	-10.16170	-10.19946	-.24588	-.21125	-.22748	569.63333	12.56274
.201	6.381	-10.15325	-10.19942	-.25244	-.21225	-.22569	569.91627	12.57008
	GRADIENT	-.00205	-.00109	-.00226	-.00026	-.00087	-.33369	-.00112

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LAS1B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(AJT053) (30 JUL 76)

LARC LTPT 228(LAS1B)B26C9E4:F8M16N28R5V8H

REFERENCE DATA

SREF = 2690.0300 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 5.000 BDFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 12.500 ELEVON = -10.000
 AILRON = .000

RUN NO. 50/ 0 RN/L = 12.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.206	-6.048	-10.19280	-10.20699	-24216	-21751	-23805	598.79276	12.67680
.203	-4.047	-10.18290	-10.20448	-23104	-21669	-23020	581.74775	12.48244
.205	-2.995	-10.18347	-10.20448	-24168	-21516	-23071	591.72377	12.58921
.206	-2.007	-10.18313	-10.20448	-23508	-21563	-22782	593.50554	12.60333
.205	-1.034	-10.20213	-10.20448	-22514	-21524	-22201	591.70587	12.57782
.205	.024	-10.19124	-10.20448	-2534	-21561	-22427	592.86959	12.57978
.205	1.003	-10.19369	-10.20448	-23698	-21012	-22944	589.40166	12.54645
.205	1.989	-10.19591	-10.20350	-25215	-21871	-23120	591.91277	12.56750
.206	3.320	-10.20057	-10.20197	-23508	-21784	-22917	593.49176	12.57864
.206	4.021	-10.20035	-10.20197	-24293	-21814	-23419	594.55594	12.58633
.206	6.040	-10.20035	-10.20699	-24421	-22390	-23749	593.87329	12.57186
	GRADIENT	-0.00337	.00013	-0.00108	-0.00025	-0.00041	.83533	.00461

(AJT054) (30 JUL 76)

LARC LTPT 228(LAS1B)B26C9E4:F8M16N28R5V8H

REFERENCE DATA

SREF = 2690.0300 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 13.000 BDFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 12.500 ELEVON = -10.000
 AILRON = .000

RUN NO. 53/ 0 RN/L = 12.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.203	-6.063	-10.15347	-10.15695	-24360	-22911	-25284	579.13008	12.61979
.202	-4.018	-10.15392	-10.18691	-25074	-22652	-23540	575.53425	12.58277
.202	-3.035	-10.15081	-10.18942	-26160	-23128	-24322	573.36279	12.55310
.201	-2.016	-10.15392	-10.19695	-27738	-22996	-23391	571.65163	12.53690
.203	-1.006	-10.15792	-10.19193	-26294	-23045	-24597	578.13686	12.60022
.203	.013	-10.15236	-10.19695	-26021	-22805	-24782	579.53204	12.60694
.202	1.059	-10.14925	-10.19946	-26205	-22768	-23943	577.86254	12.58514
.203	2.053	-10.14925	-10.19946	-26162	-22702	-24876	578.26335	12.58370
.203	2.926	-10.14303	-10.20197	-25449	-23406	-24289	578.35430	12.57316
.203	4.011	-10.14303	-10.20197	-25841	-23271	-23805	578.87740	12.58152
.202	6.033	-10.14303	-10.19946	-26065	-23304	-24223	575.13213	12.53367
	GRADIENT	-0.0134	-0.0184	-0.0034	-0.00040	-0.00055	.68883	.00225

REFERENCE DATA

SPREF =	2690.0000	SQ.FT.	XMRP =	1076.7000	N. X0	ALPHA	=	19.000	BDFLAP =	.000
LREF =	474.8000	INCHES	YMRP =	.0000	N. Y0	RUDDER	=	.000	SPDBRK =	25.000
BREF =	936.6800	INCHES	ZMRP =	375.0000	N. Z0	AK/L	=	12.500	ELEVON =	-10.000
SCALE =	.0150					AILRON	=	.000		

REF = 474.8000 INCHES YMRP = .5000 IN. YO

BRF = 936.6800 INCHES ZMP.P = 375.0000 IN. Z0

SCALE = .0150

PARAMETRIC DATA

ALPHA	=	19.000
RUDDER	=	.000
RN/L	=	12.500
AIRLON	=	.000

RUN NO.	54/ 0	RN/L = 12.58	GRADIENT INTERVAL = -5.00/ 5.00
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MACH	BETA	ELVN-L	ELVN-R	CPB1	CPB2	CPB3	O (PSF)	RN/L
.203	-6.035	-10.17725	-10.16432	-27820	-25502	-28325	53298	12.59991
.203	-4.007	-10.17725	-10.20950	-29572	-26031	-28864	21851	12.56768
.202	-3.014	-10.18191	-10.20448	-28646	-26378	-28711	98856	12.49915
.204	-2.039	-10.17569	-10.21452	-29210	-25991	-28503	60656	12.62196
.204	-1.986	-10.17569	-10.22456	-30673	-26073	-28278	26727	12.60573
.204	.005	-10.17103	-10.21703	-31227	-26455	-27630	17692	12.62232
.204	1.002	-10.16347	-10.13923	-31879	-26792	-27403	83749	12.61345
.204	2.023	-10.17414	-10.14576	-29351	-26756	-27459	01189	12.62417
.203	2.997	-10.17569	-10.13923	-32331	-27010	-27485	54305	12.55347
.203	4.007	-10.17414	-10.14174	-30490	-26435	-27030	04503	12.51477
.204	6.045	-10.17103	-10.13672	-30975	-26047	-26574	94990	12.58333
GRADIENT		.00067	.01142	.00959	-.00096	.00229	47299	-.00045

(XJTC56) (05 AUG 76)

REFERENCE DATA

[illegible]

REF = 474.8000 INCHES YMRP = .0000 IN. YC

BREF = 936.6803 INCHES ZMRP = 375.0000 IN. Z0

SCALE = .0150

PARAMETRIC DATA

ALPHA	=	.000
RUDDER	=	.000
RN/L	=	12.500

RUN NO.	69/ 7	RN/L = 12.54	GRADIENT INTERVAL = -5.00/ 5.00
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[illegible]

PARAMETRIC DATA

ALPHA	=	6.000	BDFLAP	=
RUDDER	=	.000	SPDBRK	=
RN/L	=	12.500	ELEVON	=

RUN NO.	70/ 0	RN/L = 12.61	GRADIENT INTERVAL = -5.00/ 5.00
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MACH	ELVN-L	ELVN-R	BETA	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.201	4.964	14.98181	-.01885	-.32932	-.27432	-.26771	569.28535	12.60692
.202	6.200	14.19963	-.01082	-.32436	-.26866	-.27281	569.95221	12.61643
.201	7.760	12.04110	-.00156	-.32952	-.26626	-.26677	567.94714	12.59610
.202	8.969	11.32912	.00239	-.31337	-.26305	-.26919	569.87983	12.61400
.202	9.941	10.32632	.00708	-.29511	-.26560	-.27140	570.70125	12.62984
.201	11.016	8.92431	.01045	-.27448	-.26519	-.28183	567.84911	12.59484
.201	12.048	8.09757	.01687	-.26738	-.26162	-.28858	568.73732	12.60621
.201	14.065	6.24242	.02771	-.26046	-.25761	-.29494	568.59988	12.61105
.201	14.858	4.82857	.04573	-.26228	-.25562	-.29209	569.05729	12.61118
GRADIENT		.90000	.00000	.00000	.00000	.00000	.00000	.00000

PARAMETRIC DATA

ALPHA	=	13.000	BDFLAP	=
RUDDER	=	.000	SPOBRK	=
RN/L	=	12.500	ELEVON	=

RU#:	NO.	71/ C	RN/L =	12.59	GRADIENT	INTERVAL =	-5.00/	5.00
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[illegible]

LA61B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

PAGE 124

LARC LTPT 228(LA61B)B26CE43F8M16N28R5VBW

(XJT061) (05 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 20.000 BDFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 12.500 ELEVON = 10.000

RUN NO. 172/ 0 RN/L = 12.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ELVN-L	ELVN-R	BETA	CPB1	CPB2	CPB3	O(PSF)	RN/L
.202	5.011	14.98683	-.00988	-.35717	-.33031	-.32924	572.07482	12.56898
.202	5.957	14.00910	-.01977	-.36656	-.31661	-.34118	571.86759	12.56339
.202	7.976	12.04663	.00937	-.32710	-.30777	-.34244	570.93727	12.55566
.202	9.039	11.00070	-.00115	-.32753	-.29857	-.34872	571.05072	12.56402
.202	10.034	10.06559	.00197	-.33067	-.29420	-.33742	570.78873	12.56213
.202	11.172	8.95246	.00647	-.32915	-.29237	-.34414	570.84521	12.55712
.202	12.089	7.95219	.00181	-.32411	-.30080	-.34885	571.62324	12.56677
.202	13.996	6.18727	-.00351	-.33359	-.30386	-.36339	570.83519	12.56245
.202	14.903	4.95845	.03502	-.31123	-.30536	-.37866	570.58796	12.55906
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000

LARC LTPT 228(LA61B)B26CE43F8M16N28R5VBW

(XJT062) (05 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = .000 BDFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 12.500 ELEVON = .000

RUN NO. 59/ 0 RN/L = 12.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ELVN-L	ELVN-R	BETA	CPB1	CPB2	CPB3	O(PSF)	RN/L
.209	-5.079	4.99143	-.01736	-.30527	-.24736	-.24989	607.29861	12.58710
.208	-4.173	7.95930	-.01483	-.29751	-.24376	-.24676	605.98235	12.57510
.209	-2.135	1.02549	-.00511	-.28766	-.24359	-.24453	603.43928	12.56250
.209	-1.069	.98274	.00025	-.28921	-.24015	-.24069	606.36365	12.56131
.208	-.081	-.04768	.00348	-.26430	-.23475	-.24533	606.01870	12.57441
.209	.956	-1.12695	.00615	-.25769	-.23508	-.24918	604.25669	12.56826
.208	1.944	-2.14831	.00947	-.25157	-.23530	-.26278	604.08789	12.55495
.208	3.899	-4.05569	.01732	-.24500	-.23292	-.27778	604.52082	12.56397
.208	4.955	-5.07955	.02438	-.24253	-.23692	-.28376	602.08133	12.53166
GRADIENT		.99192	.00402	.00573	.00108	-.00472	-.29715	-.00328

LA61B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA PAGE 123
(XJT063) (05 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO ALPHA = 6.000 BOFLAP = .000
LREF = 474.8000 INCHES YMRP = .0000 IN. YO RUDDER = .000 SPOBRK = 25.000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RN/L = 12.500 ELEVON = .000
SCALE = .0150

PARAMETRIC DATA

RUN NO. 62/ 0 RN/L = 12.69 GRACIENT INTERVAL = -5.00/ 5.00

MACH	ELVN-L	ELVN-R	BETA	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.200	-5.026	4.92625	-.01598	-.28007	-.24339	-.23951	557.25992	12.72839
.200	-4.062	3.88584	-.01471	-.27615	-.25035	-.24994	555.85617	12.70887
.200	-2.277	2.09836	.00270	-.28241	-.23988	-.24565	559.09512	12.73932
.200	-1.159	.88246	-.00019	-.28276	-.24005	-.24393	558.46669	12.73855
.200	-.037	.05017	.00626	-.26078	-.24005	-.25063	558.24014	12.72445
.200	1.052	-1.14694	.01108	-.26205	-.23746	-.25323	557.69914	12.72069
.200	2.017	-2.33152	.01541	-.25428	-.23948	-.25711	557.41461	12.71873
.200	3.830	-3.97538	.02255	-.25164	-.23645	-.25678	557.96132	12.71980
.200	4.824	-4.89142	.02731	-.25949	-.23906	-.26130	557.34110	12.71054
.200	5.956	-6.28431	.03054	-.25316	-.23964	-.26196	556.49273	12.69713
.200	8.045	-8.13648	.04035	-.24544	-.23875	-.28138	556.85507	12.70120
.200	9.843	-10.03382	.05163	-.25043	-.24003	-.28538	556.61998	12.69430
.200	GRADIENT	-.93265	.00434	.00340	.00103	-.00165	.02891	-.00125

LA61B (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA PAGE 124
(XJT064) (05 AUG 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO ALPHA = 13.000 BOFLAP = .000
LREF = 474.8000 INCHES YMRP = .0000 IN. YO RUDDER = .000 SPOBRK = 25.000
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RN/L = 12.500 ELEVON = .000
SCALE = .0150

PARAMETRIC DATA

RUN NO. 63/ 0 RN/L = 12.69 GRACIENT INTERVAL = -5.00/ 5.00

MACH	ELVN-L	ELVN-R	BETA	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.200	-5.115	5.11427	-.01797	-.27913	-.25100	-.26545	560.02732	12.69710
.200	-4.134	4.28696	-.00860	-.27377	-.25597	-.26898	558.79462	12.57810
.200	-2.376	2.48694	.00207	-.25493	-.24733	-.27874	558.46728	12.67751
.200	-.972	.83984	.00901	-.28448	-.25491	-.25686	558.88889	12.68125
.200	-.149	-.12549	.01487	-.28157	-.24945	-.25368	558.65903	12.68393
.200	.906	-1.14192	.02565	-.28342	-.25375	-.25976	560.15739	12.70518
.200	4.056	-4.22132	.03353	-.30361	-.25653	-.25581	557.98342	12.68134
.201	4.992	-5.13487	.05053	-.28525	-.25570	-.25794	562.31995	12.73098
.200	6.029	-6.18934	.05757	-.27755	-.25275	-.26027	559.19465	12.70355
.200	8.180	-8.15154	.05636	-.27303	-.25657	-.26122	558.32990	12.69598
.200	9.818	-10.02127	.06974	-.26563	-.24842	-.27205	557.95136	12.69424
.200	GRADIENT	-.103219	.00597	-.00314	-.00042	.00167	.23097	.00413

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LA618 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(XJT065) (05 AUG 76)

LARC LTPT 228(LA618)B26C9E43F8M16N28R5V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.6700 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 19.000 BOFLAP = .000
 RUDDER = .000 SPOBRK = 25.000
 RN/L = 12.500 ELEVON = .000

RUN NO. 64/ 0 RN/L = 12.65 GRADIENT INTERVAL = -5.00/ 5.00

PACH	ELVN-L	ELVN-R	BETA	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.201	-5.173	5.21203	-.00794	-.29292	-.27835	-.29953	562.73731	12.70927
.201	-4.426	4.23432	-.01599	-.29229	-.27343	-.31308	564.58323	12.72322
.201	-2.117	2.05574	-.00465	-.29292	-.27655	-.32125	566.57068	12.74136
.201	-1.140	.92257	.00107	-.29313	-.27873	-.31652	562.54418	12.69640
.200	-.207	.09777	.00692	-.29309	-.28139	-.30886	559.08989	12.65630
.200	.937	-1.15949	.02002	-.31281	-.28114	-.30729	557.37865	12.63069
.200	1.977	-2.27631	.02302	-.30564	-.27828	-.30003	560.98147	12.65466
.200	4.000	-4.22635	.03123	-.31346	-.28876	-.30413	561.30784	12.65591
.201	4.964	-4.94915	.04115	-.30718	-.28836	-.30013	563.40266	12.67411
.201	5.824	-6.17891	.04357	-.31344	-.27924	-.30221	562.83566	12.66859
.201	7.934	-8.15154	.05285	-.29762	-.27455	-.32005	563.65939	12.68056
.200	8.916	-10.32989	.06179	-.30122	-.28343	-.32295	560.86295	12.64583
GRADIENT		.99505	.00626	-.00266	-.00157	.00196	-.33704	-.00803

LASIB (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(XJT066) (05 AUG 76)

LARC LTPT 228(LASIB)B26C9E43F8M16N28R5V8H

REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YU
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = .000 BDFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 12.500 ELEVON = -10.000

RUN N°. 68/ 0 RN/L = 12.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ELVN-L	ELVN-R	BETA	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.200	-15.008	-4.97174	-.00587	-.25367	-.22119	-.22030	560.28696	12.55537
.200	-14.064	-6.06346	-.00557	-.26202	-.21235	-.21848	559.99145	12.55359
.200	-12.036	-8.29459	.00175	-.22313	-.21376	-.21973	560.97052	12.56478
.200	-11.006	-9.15793	.00235	-.23617	-.20973	-.21815	560.68355	12.55590
.200	-10.365	-10.19444	.00468	-.22313	-.21056	-.21841	559.71606	12.54677
.200	-8.992	-11.41918	.00732	-.23374	-.21149	-.22465	561.16913	12.55569
.200	-7.997	-12.47326	.03903	-.22107	-.21047	-.22840	561.57229	12.56202
.200	-5.983	-14.15225	.01439	-.22105	-.20808	-.24764	561.18570	12.55780
.200	-5.073	-15.32005	.01893	-.22184	-.20899	-.26091	561.42183	12.55999
.200	-3.986	-16.20018	.01903	-.22675	-.21392	-.26065	561.97179	12.57035
.200	-2.020	-18.43594	.02479	-.22413	-.21431	-.27228	560.20394	12.54721
.200	.003	-20.09776	.02957	-.22773	-.22204	-.28287	560.48570	12.54954
GRADIENT		-.97632	.00264	-.00023	-.00204	-.00557	-.37007	-.00519

LAS18 (LARC LTPT 228) REMOTE ELEVON TABULATED SOURCE DATA

(XJT057) (05 AUG 76)

LARC LTPT 228(LAS18)B26C9L43F8M16N28R5V8M

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO ALPHA = 6.000 BDFLAP = .000
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO RUDDER = .000 SPOBRK = 25.000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO RN/L = 12.500 ELEVON = -10.000
 SCALE = .0150

PARAMETRIC DATA

RUN NO. 67/ 0 RN/L = 12.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ELVN-L	ELVN-R	BETA	CPB1	CPB2	CPB3	Q(PSP)	RN/L
.199	-15.036	-4.98177	-.00717	-.25143	-.21714	-.22761	557.69559	12.53609
.200	-14.183	-6.25922	-.00755	-.23632	-.21792	-.22063	558.31637	12.53834
.200	-12.162	-8.03358	.00165	-.23893	-.21584	-.22281	559.98824	12.55998
.200	-11.020	-9.03746	.00614	-.24833	-.21611	-.22291	559.47024	12.55940
.200	-10.104	-10.24965	.01072	-.22844	-.21735	-.22346	559.04473	12.55179
.200	-9.031	-11.15064	.02098	-.23022	-.21311	-.23258	560.24062	12.56643
.200	-7.990	-11.93104	.02716	-.22731	-.21569	-.24048	559.61438	12.56228
.200	-6.019	-14.15978	.03178	-.22305	-.21720	-.25441	560.36553	12.56936
.200	-5.356	-15.16367	.04340	-.23275	-.22242	-.24913	558.03716	12.54375
.200	-4.017	-16.28802	.03638	-.23003	-.22432	-.25401	559.01392	12.56051
.200	-2.828	-18.18536	.04890	-.22281	-.22374	-.26632	560.72366	12.57287
.200	-.096	-20.44159	.06054	-.22995	-.22597	-.27281	559.41688	12.56054
GRADIENT	-1.05280	-1.05280	.00616	.00005	-.00042	-.00480	.10648	.00004

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN XO
 LREF = 474.8000 INCHES YMRP = .0000 IN YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN ZO
 SCALE = .0150

PARAMETRIC DATA

ALPHA = 13.000 BDFLAP = .000
 RUDDER = .000 SPDBRK = 25.000
 RN/L = 12.500 ELEVON = -10.000

RUN NO. 66/ 0 RN/L = 12.54 GRAD ENT INTERVAL = -5.00/ 5.00

MACH	ELVN-L	ELVN-R	BETA	CPB1	CPB2	CPB3	Q(PSF)	RN/L
.200	-15.082	-5.05957	-.01102	-.25041	-.23532	-.24175	558.11230	12.56167
.199	-14.174	-6.22910	-.00557	-.24609	-.23233	-.23604	556.48154	12.54416
.199	-12.011	-8.15555	.00153	-.24700	-.22859	-.24914	555.98686	12.53637
.199	-11.081	-9.02492	.00706	-.2574	-.22603	-.25377	557.32263	12.55160
.199	-10.229	-10.13672	.00582	-.24084	-.22923	-.23988	555.79365	12.53927
.200	-9.073	-11.08037	.01394	-.2430	-.22997	-.25500	558.49068	12.56412
.200	-8.033	-12.26301	.03988	-.24090	-.23019	-.24796	558.43571	12.56477
.199	-6.098	-14.42581	.02859	-.2513	-.22990	-.25627	554.94318	12.52546
.199	-5.076	-15.43973	.03694	-.24728	-.23152	-.25789	555.83168	12.53233
.199	-4.156	-16.11736	.03958	-.24616	-.23618	-.25915	557.20732	12.54996
.200	-1.939	-18.27822	.01676	-.24833	-.23664	-.26035	557.88863	12.55199
.199	-.162	-20.43905	.05025	-.25946	-.24145	-.25792	556.32851	12.53584
	GRADIENT	-1.0769	.00231	-.00323	-.00127	.00027	-.19863	-.00335

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LA618 (LARC LTPT 228) REMOTE ELEVNC TABULATED SOURCE DATA

(XJT059) (05 AUG 76)

LARC LTPT 228(LA618)B26CE43F8M16N28R5V8H

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO ALPHA = 19.000 BDFLAP = .000
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO RUDDER = .000 SPDRK = 25.000
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZC RN/L = 12.500 ELEVON = -10.000
 SCALE = .0150

PARAMETRIC DATA

RUN NO. 65/ 0 RN/L = 12.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ELVN-L	ELVN-R	BETA	C-81	CP82	CP83	Q(PSF)	RN/L
.201	-15.059	-5.14240	-.02128	-.27350	-.26287	-.27902	564.22711	12.64133
.201	-14.005	-5.98315	-.00387	-.28800	-.25855	-.28519	564.16395	12.64426
.201	-12.082	-8.14903	-.00281	-.29175	-.25631	-.27405	565.14964	12.66086
.200	-11.187	-9.03619	-.02341	-.29149	-.26258	-.27781	562.09603	12.62199
.201	-10.117	-10.11664	.01092	-.27985	-.25870	-.28034	563.49400	12.63974
.200	-9.059	-10.96241	.01582	-.26582	-.26511	-.27617	561.75130	12.62190
.200	-8.067	-12.21937	.01287	-.29490	-.26155	-.27295	561.98369	12.62844
.200	-6.003	-14.21751	.02780	-.28853	-.26627	-.28069	562.73573	12.63757
.200	-5.152	-14.75719	.04834	-.29333	-.26429	-.28660	562.56921	12.63807
.200	-4.227	-16.23023	.03409	-.28358	-.26826	-.28760	562.94613	12.63860
.201	-2.110	-18.17532	.05922	-.29728	-.26843	-.29313	563.37056	12.64780
.200	-.030	-20.21320	.08252	-.29060	-.27058	-.29089	562.71751	12.64401
GRADIENT		-.94830	.01154	-.30159	-.00058	-.00079	-.05372	.00130